

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: JessQRP@aol.com
Subject: [3261] "foxy" signal from Eugene, OR. next week
Message-ID: <961030224254_1482156835@emout04.mail.aol.com>

Hi all,

I will be in Eugene OR next week on buisness at the Red Lion Inn. I called then today and made some inquiries about the room and accomodations. Apparently the hotel is a two story affair that is built in a big sqaure with a center courtyard and parking lot all the way around the outside. I asked the person that I talked to at the front counter if there was anywhere that I could set a portable antenna up about the size of a mini flagpole because I liked to "listen to shortwave radio at night". Well as it turns out, one of the rooms at the hotel in the corner of the square has it's own little private fenced patio! She said that she would book me into this room so that I would have a place to set up my antenna and that nobody would bother it there. I guess the patio is about 10 X 14 and that should give me plenty of room for the SLV and a couple three radials. So, I will be on the air from Orgeon whenever I can in the evenings mostly on 40 meters at or around 7040 from about 700 pm until about 9 pm or later local time. I will also check out 20 meters and 30 meters if the band is open earlier in the day and time allows. This should be a fairly laid back trip and give me a good opportunity to shake down my St Louis Vertical as a trip/ portable antenna. I will use it as advertised and will not short out the coil for any of the higher bands. This would defeat the purpose of the design and my intentions for the antenna. Now all I have to do is pack the OHR 400, the DD-1 display, the batteries, the key, the tuner...My back is hurting already! I will carry all of these items on the plane as I will not trust my rigs to the baggage handler. I wish that I had a smaller 40 meter only rig to take that I could put in the corner of my brief case, but would not allow me to work other bands. I may even give 80 meters a try. Give me a listen and see if we can hook up from the great North West. Not a real Fox hunt, but should be fun for all and a kick in the pants to see how the SLV plays! I will be there from Monday Nov 4th until Thurs Nov 7th. I will log and QSL.....

Best
Jess NOTFI

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: wager@juno.com (James W. Cates)
Subject: [3220] 49'er Kits sold out
Message-ID: <19961030.090712.4646.4.wager@juno.com>

There will be no more. Next NorCal club project will be the SST

transceiver kit, which Wayne, N6KR, is designing at this time. Thanks to all who made the 49'er a huge success for the club. jim, WA6GER.

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "Bowes, Fr. Bruce" <GBB1@MUSICB.MARIST.EDU>
Subject: [3244] 49's gone
Message-ID: <30OCT96.18656124.0091.MUSIC@MARISTB.MARIST.EDU>

I was hoping for a Christmas present.
Fr Bowes

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: bachmann@ari.net
Subject: [3265] 5.12 MHz crystals/food for thought
Message-ID: <199610310438.XAA13088@mtolympus.ari.net>

Good Evening,

What happens in general when you series or parallel crystals? If the crystals are the same frequency, does the frequency stay the same because the inductance halves and the capacitance doubles (or vice versa)? Could you pull it off frequency further? How far can you generally pull crystals off frequency? What limits it? What about a 5.0688 and a 5.185 in parallel or series? Am I way off base with this line of reasoning?

Digikey has Epson 10.24 MHz crystals, Digikey part number SE3421-ND. The problem with this is that the MC14060 doesn't have a tap to get the 5 KHz when you use the 10.240, Besides adding a gate to divide by two, is there any simple way to halve the frequency with a cap?

And, while I'm carried away asking questions, what is the meaning of life?

tnx, 73, Rich Bachmann, N3SLR

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: PasDave@aol.com
Subject: [3173] A 10M QRP Transmitter
Message-ID: <961030003934_1281426365@emout17.mail.aol.com>

I am looking for a 10M Transmitter or transceiver kit--QRP of course. Does anyone out there know of a good-performing 10M transmitter kit? I'd like to

know where to get the pc boards or kits. Thanks! 73, Dave KE6PUF

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: lve1@inel.gov (Larry V East)
Subject: [3242] ARRL Message -- FCC Computer Kaput
Message-ID: <2.2.16.19961030220225.23df0bca@eloi>

For your information (from ARRL 10/30/96 3PM MST):

>SB QST ARL ARLB076
>ARLB076 FCC computer down
>
>The FCC's Gettysburg, Pennsylvania, office reports that its amateur
>computer system has been down for the past two days because of
>unspecified difficulties. Despite the current problems, the FCC
>still hopes to begin issuing Gate 2 vanity call sign grants by the
>end of this week, starting with the first-day applications now
>entered into their computer system.
>
>Hams are asked to be patient and to refrain from calling the FCC to
>inquire about the status of their vanity call sign applications. The
>Gettysburg FCC Office Consumer Assistance Staff is not able to
>provide further details on the delay.
>
>On a related note, due to the amateur system difficulties, no new
>amateur license or upgrade grants have been released since this past
>weekend.
>

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "Len W. Touth" <len@infinet.com>
Subject: [3241] band openings/Solar Cycle - SUPRISE!
Message-ID: <199610302100.QAA05008@mail1.infinet.com>

Hello all.

I am relatively new to the group and have been into QRP for about 1 1/2 years. I am finding myself continually drawn to QRP. I have read the postings to the group the last few weeks. GREAT STUFF!

I wanted to relay a suprising qso I had about 3 weeks ago on 40m around 7:30 PM local.

I was calling CQ around 7011.5 (mostly to tune up the random wire), and

without a pause a DL station came roaring back. He was a solid 599 (perhaps better - if only my TAC-1 had a meter!). He gave me a respectable 559. What amazed me was that I was using an emergency set-up on my patio consisting of 20 feet of random wire stapled to the patio ceiling. BTW, my TAC-1 was pumping out a mighty 5 watts (smile).

The heck with dead bands, low spots, and the like. The band is probably open to somewhere. For me (in Central Ohio), it happened to be to DL Land that evening. Kinda keeps you coming back for more, no? Two months earlier, I suprised an EA/QRP station who was calling CQ on 20 - I was QRO (sorry). He was so excited to finally get a DX contact, I got his QSL card via airmail within a few weeks. He told me that he had been calling CQ for about one hour. Persistence pays!

As far as my "real QRP shack" goes, with my OHR 400 to the Windom up 30 or the R4 Vertical, I have splendid results almost daily and frequently get an answer calling CQ on what appears to be a dead band. I am beginning to think that 5 watts will be an unfair advantage when the solar cycle comes back to life, and I am contemplating going QRPpp when spots return.

73
Len
KG8SF

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: johnhill@freenet.edmonton.ab.ca
Subject: [3196] CQ CQ Edmonton AB QRP'ers
Message-ID: <Pine.A41.3.95.961030064904.48140A-1000000@fn2.freenet.edmonton.ab.ca>

Looking for like minded individuals in Edmonton, don't know any hams here that build...anything. Please let me know if you exist.

email: johnhill@freenet.edmonton.ab.ca

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Bill Myers <bmyers@destin.nfds.net>
Subject: [3221] Crystal Cases
Message-ID: <1.5.4.16.19961030113708.09ff112e@destin.nfds.net>

Well....

I got a number of "OLD" crystal's laying around here. I REALLY HATE to throw them out, most are not in the ham bands.

BUT...

I have a dozen or so FT-243's and about 100 FT-241-A's and AX-3's (same pin spacing and diameter as the 243, just a slightly larger case). Freq's are from just over 1 meg to about 30'ish (non-ham).

I've been using them for the bases, I remove the case top/front and use spring clips to attach the crystal with the frequency I need, mostly on my HW-16.

For the really old timers, I also have some CR-1A's...Really HUGE PINS...

If you're interested, drop me an e-mail and I'll send some to you. I've been carrying them around for 15 years hoping someone could use them...

72

--

Bill Myers KK4KF FISTS #2390 QRP-L #755 ARRL
Snail Mail P. O. Box 178
 Shalimar, FL 32579-0178
Grid EM60rk
e-mail <bmyers@destin.nfds.net>
homepage <http://destin.nfds.net/~bmyers/>
CHECK OUT THE FISTS INTERNATIONAL CW CLUB HOMEPAGE
<http://n9nvv.qrp.com/~fists>
 ^^^^ That's N 9 N V V

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: George Gingell <k3tks@u1.abs.net>
Subject: [3181] Crystals, 40-9er, & QRPp
Message-ID: <Pine.BSI.3.93.961030025618.3027A-100000@u1.abs.net>

I have noted several requests for 40 meter Crystals and 40-9er Kits on the qrp-l list recently. Here is some information extracted from a recent copy of QRPp, the NorCal Journal.

For those of you looking for FT-243 Crystals, here is an idea you might wish to use. Buy one of these nice HC-18 crystals from NorCal and install it inside of an old FT-243 or Sc-721 case. I have some [(:^)] cases/crystals, but no ham band crystals. It will look OLD, but work

better. (You can VXO it more than the FT-243).

CRYSTALS: HC-18 Crystals are available from NorCal. 7.040 MHz, 7.122 Hz (Novice Band) and 10.116 MHz for 30 meters. The price is \$ 3.00 each, postpaid. Make checks or money orders out to Doug Hendricks, 862 Frank Avenue, Dos Palos, CA 93620.

40-9 er Kits: Featured in the March (1996) issue of QRPp. All board components, PC Board (plated and silkscreened), 6 page manual, and a crystal of your choice 7.040 or 7.122 MHz. \$ 25.00 for U.S., \$ 30 for DX. US funds only. Please specify which frequency you desire. Extra crystals are \$ 3.00 each. See June 1996 issue of QRPp for mods and improvements. Send your orders to: Jim Cates, 3241 Eastwood Road, Sacramento, CA 95821. Please make checks and money orders out to Jim Cates, NOT NorCal.

QRPp (The Quarterly Journal of NorCal Club.) is available for a subscription fee of \$ 10.00 for US residents, \$ 15.00 for Canada and \$ 20.00 for DX per year. To join the NorCal Club, send your name, callsign, and address to: Jim Cates. There is no charge for membership in the NorCal club. To receive QRPp, you must subscribe and pay fees. send your money, US Funds ONLY, to Jim Cates, 3241 Eastwood Rd. Sacramento, CA 95821. Please make checks out to JIM CATES, NOT NorCal.

OH! BTW,

Back Issues of QRPp are available in bound volumes only.

Volume I contains the 3 issues from 1993, Volume II contains the 4 issues from 1994 and Volume III contains the 4 issues from 1995.

Volume I is 140 pages and is \$10 plus \$2 shipping for US addresses, \$5 shipping for DX. Volume II is 296 pages and is \$15 plus \$2 shipping for US addresses, \$5 shipping for DX. Volume III is 276 pages and is \$15 plus \$2 shipping for US addresses, \$ 5 for DX.

If you order all three Volumes the cost is \$40 plus \$3 shipping for US addresses, \$10 for DX. To order, send your checks and money orders to: Doug Hendricks, 862 Frank Avenue, Dos Palos, CA 93620. Make all checks or money orders out to Doug Hendricks, NOT NorCAL or QRPp. All prices are for US funds only.

If you do not already belong to NorCal QRP Club, I strongly urge you to consider joining. I promise you will receive full value for your \$10.00 subscription fee. In addition to receiving parts and kits at below market value, there is a wealth of knowledge to be gained reading the many high tech construction articles that you will find in every issue.

I personally consider QRPp (NorCal), The QRP Quarterly Journal (QRP ARCI), and SPRAT (G-QRP Club) to be the "BIG Three" in the "World of QRP". If you are "INTO QRP/Homebrewing", you owe it to yourself to have all Three in your Library.

The Current "Correct Address" for Membership in QRP ARCI is
Membership Chairperson, Michael Bryce, WB8VGE
P.O. BOX 508 Massillon, Ohio 44648-00508

New Members \$ 17.00, Renewals \$ 15.00 USA
New Members \$ 20.00, Renewals \$ 18.00 Canada
New Members \$ 27.00, Renewals \$ 25.00 DX

Checks are to be made out to "QRP-ARCI" (Check or Money Order in U.S. Funds)

If you forgot to "Renew in time" and missed the October issue, you can contact Mike Bryce and request a "Back Issue" for a \$ 4.00 charge including postage. Mike can be reached via email at 73357.222@Compuserve.com

72,73 es
QRP DX TU (C) 1986 G.Danny Gingell, K3TKS@.abs.net
Maryland Milliwatt QRP Reference Library, (301)572-6789

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: wb2vuo@juno.com (William K Hibbert)
Subject: [3258] Cycle 23! I Can Hardly Wait!!!
Message-ID: <19961030.154719.4727.1.wb2vuo@juno.com>

I have no problem working with QRP during the Solar Doldrums, BUT...

My family life will be in jeopardy when Cycle 23 improves. This will be my 4th sunspot cycle (and that IS a scary thought...), and all the time I have been on HF, QRP has been my primary mode starting in 1972 with a W1CER QRP TX and my SX-25 RX, and then an Argonaut 505, which was the ONLY rig I had with me as WB2VU0/VQ9C in Diego Garcia and numerous others in the years since.

You WILL work out just fine, if not better with QRP during the high sunspot years, and will do fine on 160 - 6 Meters. I am wondering if the op mentioned that was talking QRP and 100 watts in the same breath was referring back to my 1966 "Handbook" which insists that 100 + watts is QRO, and Barefoot, 100 watts an lower is QRP...

Maybe then, but not now. I ran QRP as a Novice without knowing it (no wattmeter), and worked all I could hear on 80 & 40 Meters. I went "High-Power, with a "Novice Gallon", 75 watts input to the plate of an 807, crystal-controlled, of course. Not too surprisingly, my main

antler is still an 80/40 Meter Inverted Vee, fed with a single coax line. I have others antlers of various sorts, but always can trust the Inverted Vees to perform...

Get your coathangers ready, but better yet, get the best antenna you can install ready. There will be enough fun to go around. Trust me.

72/73, Keith, WB2VU0, QRP-L #582

Trustee, KB2YTW/B 10 Mtr Milliwatting Beacon (250 mW @ 28.2870 MHz)

"In the Depths of the Great Bergen Swamp...FN13ac"

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: Steve Miller <kg7pv@teleport.com>

Subject: [3202] dipole with ladderline

Message-ID: <1.5.4.32.19961030144236.00665710@mail.teleport.com>

>Date: Mon, 28 Oct 1996 00:48:00 -0600

>I have a quick question from those with experience;

>I'm prepairing to install a dipole fed with 450 ohm ladderline. It's not

>real easy to run the ladderline into the house, so I plan to use a 4:1 balun

>at my cable entrance and then feed it with 20 feet or so of RG-8.

> Has anybody tired this setup?

Denton, you just descibed one of my antennas. I do use an external "T" network tuner tho. My antenna is cut for 40 and works fine on 40, 30, 20, and 15. Will load up on 80

though the tuning is sharp. I use another antenna for 10. GL

Steve Miller (CN-85) Norcal #308 QRP-L #109 ARCI # 9230

Norcal 40A es Oak Hills Spirit II es dipole

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: Steve Miller <kg7pv@teleport.com>

Subject: [3268] early Halloween contact

Message-ID: <1.5.4.32.19961031050851.0067c5cc@mail.teleport.com>

Was deep in cw tonight working KK7N Mike on 40 meters. Had the Yaesu phones on (full over the ear, very quiet) when a hand suddenly appeared in front of my face! I jumped, good thing I was copying not sending, and turned to see the xyl trying to get my attention. I didn't even know she was in the room. Whew! Thought Halloween was a night early. When I told Mike about it on

the next go around he cracked up - his xyl has done it to him too. So, just for fun, any other spooky qso stories since its Halloween time? 73 all.

Steve Miller (CN-85) Norcal #308 QRP-L #109 ARCI # 9230

Norcal 40A es Oak Hills Spirit II es dipole

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: launerb@crl.com (William H. Launer)

Subject: [3257] Field Strength Meter

Message-ID: <v01530500ae9db9608a04@[192.0.2.1]>

Gang,

This past summer, I bought a Pace 5403A SWR/Wattmeter at a local hamfest for \$5. It's a stripline unit built for the cb trade, and has 10 Watt and 100 Watt ranges, just right for qrp use. I found it also functions as a relative field strength meter, with sensitivity controlled by a potentiometer. I simply put a 10 inch length of #14 wire on its output as a pickup antenna.

I place the unit near my end-fed wire, and use it to peak up the tuning of my SB-401 at qrp power levels.

72/73, Bill wb0cld

Bill Launer

St. Charles, MO

launerb@crl.com

wb0cld@wb0cld.ampr.org [44.46.66.25]

qrp-l #279 qrp arc1 #3551

Grid Square EM48RT

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: Steve Miller <kg7pv@teleport.com>

Subject: [3209] For Sale: Freq counter

Message-ID: <1.5.4.32.19961030155110.0067167c@mail.teleport.com>

Hi all, have the following counter for sale. Works fine. Has original

probe, ac adapter/charger and antenna in factory box with manual. Like new condition.

Startek ATH-15 \$130 shipped insured US or Canada

This counter is a handheld model with built in nicad pack. The dc adapter also charges the battery pack. Features a bar graph signal strength meter. Auto and manual frequency hold feature (holds last freq read) and counts from 1 mhz to 1500 mhz.

Send me a msg here or call the shack at 503-293-8926. Thanks.

Steve Miller (CN-85) Norcal #308 QRP-L #109 ARCI # 9230
Norcal 40A es Oak Hills Spirit II es dipole

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "Seabury Lyon, AA1MY" <SSLYON@postoffice.worldnet.att.net>
Subject: [3267] FOX all nite
Message-ID: <19961031044100.AAA21417@LOCALNAME>

Barry had the patience of a saint... long slow calls and long silent listens... I heard a few calls but most were too weak to i.d. It was kind of eerie hearing the FOX as the loudest sig. other than the QRM. Heard him every time I came back to ~7.110 +/- but only in one QSO. I had to QRO in order to make a few other contacts, -very noisy. Rig is TS830, tuner, 1350' loop. 73 =s= (QRP-L # 574)
Seabury "Seab" Lyon AA1MY
44 Codfish Hill Road
Bethel, CT, 06801, USA

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Clayton Schmitt <schmittc@chiriqui.com>
Subject: [3190] FOX Findings
Message-ID: <199610301154.GAA09577@ns.chiriqui.com>

On 7112 lots of beautiful Chinese funeral music. 7121 also had funeral music but of an unidentifiable ethnic origin. The elusive Fox was not found.

Clayton Schmitt
HP1YAR/N7DKZ

>From the flanks of Volcan Baru
Boquete, Panama

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: majewski@erim.org (Ron Majewski)
Subject: [3223] FOX Log for 29 October (long)
Message-ID: <9610301835.AA04873@spsd630a.erim.org>

Hello to all,

I find myself at a loss for a simple way to summarize my first effort as the FOX. The best I can muster is "Wow, what a blast!"

Monday the 28th was a perfect day for me. The weather was clear and warm, so I took the day off to work on a top-loaded, 44ft tall vertical for 80m. Early in the evening I went down to the shack and checked everything out. No visits from Mr. Murphy, so I went off to do other things until 0045utc. Propagation-wise, the A index was a bit on the high side, but I remained optimistic. Static levels were tolerable.

I started listening to 7.037 MHz at 0045utc; the frequency was and remained clear until 0100utc. I doubled checked the frequency with two "QRL?" and got no reply. Little did I realize what I was about to get myself into.

Using the quarter wave ground plane, I leisurely called "CQ HUNT" and signed, not really expecting an answer. Big miscalculation. The frequency erupted with a cacophony of cw signals. My brain rebelled against the sudden inrush of sounds all competing for translation into characters. I found my heart rate climbing and my movements becoming stuttered. Fortunately, Cliff (ab5ua) stood out above the clamoring throng and grabbed QSO #1.

The CW chorus swelled after the first QSO. I remember thinking that I was hearing first-hand what a rare DX station must hear. I switched in the 250Hz filter to help my brain pick out signals. In 22 years of hamming I have never been called by so many stations at once! This was pure ham radio fun.

The two hours went by in a flash. The static became significantly louder around 0145utc, and I used the delta loop pretty much exclusively after that time. I remember calling CQ once

more around 0210utc, but worked from the pileup all other times. It was great fun to associate signals and fists with persons whose posts I have read on QRP-L. It was nice to meet all of you (albeit briefly) and my apologies to all those whom I missed. I worked stations as fast as I could without becoming a total automaton (I'll save that for the CW SS).

The final tally is 45 completed QSOs and three partials. I lost all three of you to severe fading and I feel bad about that. I worked 13 unique states and one Canadian Province. I would like to hear from stations in the upper midwest and east that tried to work me but couldn't -- these areas are completely absent from my log and my curiosity has been aroused. Was it due to my antennas, a lack of propagation, or a lack of participation?

Today's TX-CA game went to Texas (13 TX to 10 CA), although California made a strong showing towards the end.

Again, my thanks to all for a most enjoyable evening and a new and unique hamming experience. I hope to work some of you in the CW SS and many more as the FOX again in January 1997.

72/3,

Ron (WB8RUQ)
majewski@erim.org

----- (FOX log for 29 October UTC) -----

0102	ab5ua	559	559	ok	cliff	478
0105	w5hns	569	559	tx	henry	178
0106	ke4yh	549	569	fl	stew	590
0108	nq7x	579	az	floyd		343
0113	kk5ro	569	559	ok	vernon	325
0114	wa1yia	569	559	tx	oj	732
0116	kk4kf	559	579	fl	bill	755
0118	w1hue	579	559	id	larry	228
0120	ac5ii	579	569	ok	don	264
0122	n6ulu	579	579	ca	stan	66
0124	w5tfb	589	589	tx	jack	282
0125	n5ocd	579	559	la	brian	324
0127	wd8ldy	589	589	tx	dave	5 watts
0128	n7mfb	559	579	wa	bill	715
0129	kb5yvt	589	579	tx	mike	4 watts
0130	kc5ras	559	579	tx	bob	273
0133	k5fo	569	579	tx	chuck	1
0134	ku7y	559	nv	ron		17
0136	kk7bd	559	559	az	dan	696

0138 ww7y 559 599 ut steve 94
 0139 k5on 559 559 nm gary 770
 0140 kc7nev 559 539 az joe 191
 0149 wb4zka 559 559 az mike 237
 0149 aa7qy 559 539 az roger 62
 0153 ve7sl 559 559 bc steve 769
 0155 k1mg 559 559 ca mike 614
 0159 k6vnx 569 449 ca arlen 4 watts
 0200 n5jky 559 559 ok mike 300
 0203 wa9ylb 589 599 tx jim 5 watts
 0205 nq7k 589 589 az mike 47
 0210 w6emd 559 339 ca dave 294
 0212 wa6rae 449 ca dwight
 0216 aa2wj 559 559 tx dick 5 watts
 0220 wa6ger 339 579 ca jim 738
 0227 w7jdz 449 339 id mac 752
 0229 wd5gkh 559 569 tx charlie 5 watts
 0233 ac6kw 449 439 ca jeff 16
 0235 ka5t 549 449 tx larry 89
 0239 k5zty 559 559 tx bill 473
 0242 wa6hhq 459 449 ca eric 429
 0245 wo0q 549 549 co marty 793
 0248 ko6ka 459 559 ca rob 176
 0250 w6bab 559 559 ca harvey 2 watts
 0255 aa7wt 449 449 mt mal 2 watts
 0255 wa5vqk 559 449 tx tim 586
 0257 ab5ou 549 449 73
 0259 aa0xi 559 559 co marshall 153
 0300 ae4ic 449

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
 From: "Bob Tellefsen-CNSE97" <Bob_Tellefsen-CNSE97@email.mot.com>
 Subject: [3266] FOX Report WD4MSM
 Message-ID: <M1125060.001.4i3m0.1.961031043545Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/
 PRMD=MOT/ADMD=MOT/C=US/@MHS>

Well, guess I'll have to remember this night as the night of the Indiana Ghost Fox. Even with an unusually low noise level, I never heard either Barry or anyone working him. Did hear one Alabama station near 7112, but that's the best dx reception tonight. Spent two hours searching around 7112 and 7121, but not a peep or a yip. Had a good rain earlier tonight, probably why the noise level was down. Power insulators got their first wash of the season. With all the clear muddy ground, you'd think even a Fox would leave a few footprints. No dice.

Oh, well. Better luck next time. Hope someone worked Barry. Have to keep the

Novices pumped so they'll come back and keep us old barnyard dogs entertained.

72 to all all and to all a good night.

Bob N6WG

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: kb0rol@juno.com (Bradley L Mugleston)
Subject: [3182] FOX SWL Report
Message-ID: <19961029.223607.7631.2.kb0rol@juno.com>

Well I heard Neil WA7SSA here in Colorado - with the house dead quiet AF all the way up and RF 3/4 of the way off I could just hear him under all the noise at about 0105. I did try one attempt to contact him but if he answered back I couldn't hear him. I listened to lots of QSO's during the two hours but only think I hear him one other time at about 0215. I decided to go upstairs and use my Explorer II and my new delta loop. I believe either things got a lot better once I got upstairs or I should have been on the explorer the whole time. Not near as much noise and I could hear a lot more QSO's going on but no FOX.

I decided to get in a little radio sending so I replied to a CQ from W6RO in California. He sent me the normal stuff - RST, Name, QTH - so I sent mine. Then he returned with my number A 265 over and over again. I thought I had lost my brain so I asked him to repeat - again my number was 265 - How come no one told me that Associated Radio Amateurs of Long Beach, Inc. was having some sort of party and giving out numbers. I hate going somewhere with out a gift when everyone else is exchanging them.

Well so far I've caught ZERO foxes - I believe I've heard two but that doesn't give me anything to hang on the wall. Maybe tomorrow night.

de

Brad Mugleston - KB0ROL
Colorado QRP Club # 170, QRP-L #316, ARRL
QTH - Aurora, CO - DM79oq
KB0ROL@JUNO.COM
BMUG@GWL.COM

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "Ken Freedman" <n1qqv@cshore.com>
Subject: [3260] Fox: Tell the Truth, Chuck!
Message-ID: <199610310342.WAA50070@nss2.CC.Lehigh.EDU>

Gang,

Last night, not only could I not hear the Fox here in Connecticut, I couldn't hear even one hunter. So just to check things out I dropped my QRP+ down to where the QRO boys play (7.017 if it matters) and got a 5-7-9 from XE3AJM, Jose, in Campeche Mexico. Tonight, not only could I not hear the Novice Fox here in Connecticut, I couldn't hear even one hunter. So just to check things out I dropped my QRP+ down to where the QRO boys play and got a 5-5-9 from 9A1CAL, Zvonko, in Cakovec Croatia.

Come clean Chuck: Are you lettin' these Fox guys use antennas??

73, Ken

Ken Freedman
AKA: N1QQV/QRP

VE, EC Madison CT

Living Proof That, "You don't have to be a blonde to be light headed!"

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Mark.Milburn@cybrtech.com
Subject: [3259] foxes? what foxes?
Message-ID: <199610310334.WAA254721@nss2.CC.Lehigh.EDU>

Skunked again! Listened on and off for an hour and a half and heard absolutely nothing.....no foxes, no hunters.

Looks like I'm destined to stay at one fox...forever.

We did have 128 kids for Halloween, though. Good to see the little ones, but looks like they keep getting older and bigger every year. I must have had 20 or more that were bigger than I am.

Keep those foxes coming....I just gotta get more wily, that's all.

72/73 Mark

KQOI @ WOAK.#CIA.IA.USA.NOAM e-mail mark.milburn@cybrtech.com
ARRL - DMRAA - QRP-L #625 - NORCAL #1829 - ARS #139 - NW QRP #418
QRP ARCI #9226

... nfx v2.6 [C0000] Growing old is mandatory - growing up is optional

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [3255] FT-243 crystals
Message-ID: <199610310155.TAA05438@multi2.pic.net>

I was cleaning out my junk box today in preparation for the Livermore flea market, and I came across a few crystals in FT-243 cases, all original, untested, condition unknown. All but the 8-MHz crystal were used by me with my first transmitter, an HT-9.

I read that a few folks were looking for some of these to use for vintage gear reproductions.

Who wants them?

3510 kc	Petersen Radio Co.
3596 kc	Petersen Radio Co.
7052 kc	Texas Crystals
7067 kc	Texas Crystals
7075 kc	Polytech Devices
8030 kc	Scientific Radio Products

Free to QRP-L members with one condition: you have to send me a photo of it in use OR have a QSO with me using it.

Mike K1MG

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: wb2vuo@juno.com (William K Hibbert)
Subject: [3256] FT-243 Xtals and Xtal current
Message-ID: <19961030.154719.4727.2.wb2vuo@juno.com>

I think that one point has been missed. For a Classic TX, like the Bare Essentials, the crystal current, in other words, the RF through the rock can be high enough to fry a smaller rock, such as an HC-18 or HC-25/U mount. The "Handbook" standard single-tube TX in the late 50's/early 60's had a #49 pilot lamp in series with the crystal to act as a fuse! No joke! The current rating on the bulb is 60 ma, and in the 6BQ5 Power Oscillator I ran at one time, it would light up about half-way.

An HC-18 or HC-25 mount crystal is usually rated for 2 ma MAX... The typical tube oscillator will pull 10 ma or more thru a crystal in its NORMAL operating mode.

At \$4.00 up, how may rocks do you want to cook in your Hollow-state rig?

72/73, Keith, WB2VUO, QRP-L #582

Trustee, KB2YTW/B 10 Mtr Milliwatting Beacon (250 mW @ 28.2870 MHz)

"In the Depths of the Great Bergen Swamp...FN13ac"

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: Bob Hightower <ki7mn@dancris.com>

Subject: [3263] FYBO Final Rules

Message-ID: <199610310406.VAA27049@dancris.com>

I have received from Joe Gervais the final FYBO rules. There are a couple of changes, so you can get them from <http://www.dancris.com/~ki7mn/fyborule.html>.

Also, this page changes daily, sometimes hourly, so if you haven't been there in awhile, check in. If there is anything you want to see there, let me know and I'll try to get it in. I know there are some more parts/kit vendors out there, but I haven't been able to keep up with them all. If you know of one who ought to be on there (qrp particularly), let me know.

73,

Bob, KI7MN QRP-L #271, NorCal #1228, CQC #274, QRP ARCI #8918, not in any order of importance.

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: jgann@mindspring.com (Alvin G. Gann)

Subject: [3215] HB: FT-243 sockets (was QRP-L digest 528)

Message-ID: <199610301633.LAA26363@answerman.mindspring.com>

.....

>www.allectronics.com) has vy cheap old fashion ft-243 sockets.

.....

Or you could be really authentic and use an octal tube socket. It takes FT-243 crystals perfectly and you can get two crystals in one octal socket so you can switch in your choice.

This was a common practice back in the '50's and '60's when all we had was tubes and FT-243 crystals.

GL 72 --Jerry W1UI

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Makoto Minowa <minowa@icepp.s.u-tokyo.ac.jp>
Subject: [3174] HB: Wide range VXO - called Super VXO(a bit long)
Message-ID: <199610300550.0AA01987@yanagi.icepp.s.u-tokyo.ac.jp>

Dear homebrewers and experimenters,

Since it seems that the wide range VXO called "Super VXO" is not well known to people out there, I would like to introduce you this nice method, which is more or less commonly used among Japanese homebrewers.

The Super VXO uses two X-tals of the identical nominal frequency in parallel instead of a single X-tal of a conventional VXO. Nothing else is special. It can pull considerably more frequencies than the conventional one. About 40kHz for a pair of 10.15MHz X-tals, and 90kHz for 13MHz, according to my experiences.

The essential part looks like:

```

      +--|[]|--+
[transistor base]---+      +-----CCCCC-----| (----->[ground]
      +--|[]|--+      inductor   variable cap.
```

The Super VXO is said to have been invented and named by JA0AS(Mr. Shimizu) and JH1FCZ(Mr. Ohkubo) many years ago. (Sorry that the spellings of their names might not be correct.) The story of their invention of the Super VXO is reported in a book(written in Japanese) entitled "Textbook for Homebrewing of Electronic Circuits"(this is my translation, the original title is in Japanese.) written by JH1FCZ.

The followings are MY experimental results.

(1)Two 10.15MHz X-tals in parallel + 15uH inductor + 20pF poly-variable cap. covered the range of 10.10 - 10.14MHz. I built a 30m direct conversion QRP XCVR with it. Frequency is very stable. The transistor used is 2SC1815, a common general purpose small signal TR with $f_T=80\text{MHz}$.

I tried it with some different type of inductors of the same value, but it did not oscillate with a small-sized axial lead type inductor. Inductors with larger physical size seem to work better. Maybe Q of the inductor is the issue. Those who want to experiment may need to try with as many types of inductors as possible. Increasing the bias

current of the TR may also help in case it does not oscillate.

The frequency range can be made still wider with larger inductance value, 22uH for example, but the frequency stability gets worse rapidly with increasing inductance. Anyway, we need not go lower than 10.10MHz !

(2) Two 13MHz X-tals in parallel + VX0-50 coil(see below) + 30pF air variable cap. gave the range 12.91 - 13.00MHz. The transistor used is again 2SC1815.

The VX0-50 coil is designed specially for Super VX0 and sold by the FCZ-lab, a company founded by JH1FCZ(they sell many kits and special parts for HAMs). This coil is slug-tunable with a core of small temperature coefficient. The inductance ranges between 7 and 11uH.

This Super VX0 is used in my 6m QRP SSB super-het XCVR. The VX0 freq is multiplied by 3 and used with IF of 11.2735MHz to cover the freq range of 50.00 - 50.27 MHz (270 kHz !). Frequency is acceptably stable but not so stable as the above example of 10.15MHz. A change in voice pitch is observable in a long QSO.

I have results for 20m XCVR and so on, too, but I stop now because it got a bit too long. Some comments to append are:

A X-tal with a frequency below 10MHz is hard to pull by more than 50kHz even with this method if you need stable freq. The lower the frequency, the narrower the range. Therefore, for lower bands, you need to choose appropriate IF to cover the wide freq range with Super VX0 of higher freq. I am now trying to build a 40m CW XCVR with IF = 4.5MHz and Super VX0 of 11.54MHz to cover 7.00 - 7.04MHz.

A 3rd overtone X-tal can be used at its fundamental frequency.

The frequency range can be made wider with larger inductance value, but the frequency stability gets worse rapidly with increasing inductance. JH1FCZ recommends in his book mentioned above that one should keep the freq range within 0.5% of the nominal freq to maintain the freq stability, namely 50kHz for 10MHz for example.

You might want to use a surplus square canned slug-tunable coil of an appropriate inductance for Super VX0, but the freq stability depends on the temperature coefficient of the core material used. Commonly used core materials seem to have large temperature coefficients. I have no experience of Super VX0 with an iron powder toroidal core inductance, but proper choice of the core material is also the key in the sense of the freq stability.

I hope this information helps homebrewers of the QRP-L.

7N3WVM

MINOWA, Makoto

QRP-L member #572.

A bigot with no Yaesu, no Kenwood and no ICOM in his shack.

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: ka7you@juno.com

Subject: [3249] Help with JUNO

Message-ID: <19961030.145217.5431.6.ka7you@juno.com>

To any Juno users,

Two days ago, my son (KC7RSR) tried to set up an account on JUNO, but the 'Central Computer' kept dropping the modem connection. I thought the modem setup file was messed up, but it still worked OK for my accounts. I was able to log on with his name and password by 'importing' the account to my notebook computer.

Then this morning I tried to get my mail, and the Juno software came up with the screen for a new user. It didn't acknowledge that there were users already on file (four of us to be exact).

I tried several times, but got the same screen each time. I tried importing my account, as though it was a different computer, and after the usual questions, my mail came through. However, I have lost access to all of my "folders" of saved information.

I used PCTOOLS to look in the Juno files, and they are still on the hard drive, user id's and all. The folders and the saved items are there too! I just can't access them via the program.

Any ideas? Any one have the JUNO "HELP" number? I think it is in one of my files too, but I can't find it.

All I need to do, is get my existing files linked back into the program, so that i can access them.

Thanks,

Rod Johnson KA7YOU NWQRP#120

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: Charles Cashion <ccashion@spdmail.spd.dsccc.com>

Subject: [3232] JOY!!!

Message-ID: <199610301952.NAA23138@spd.dsccc.com>

In message Wed, 30 Oct 1996 13:32:49 -0500, KFGlynn@aol.com writes:

KFG>

KFG> Hi gang,

KFG> Is QRP not going to cut it with QRM
KFG> and associated noise, even on 10 or 15M?
KFG>

Aren't you going to include 6m? Is 6m a dirty syllable here?
Come on... somebody tell him about 6m ...
...otherwise I will have to.

72s
Charles Cashion, QRP-L#76, W5ISZ

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "Laura" <sputnik@imt.net>
Subject: [3216] Last night's fox
Message-ID: <199610301611.JAA16110@cu.comp-unltd.com>

I did hear Niel last night at about 7:30 MST (02:30 UTC) give or take 5 minutes. I'm in Bozeman, Montana, so our close proximity to the fox was no help! He came out of the noise for about a solid seven minutes, with a bit of QSB...I returned his call several times, but heard him working other stations. Then the QSB got the best of him and I never heard him again. But that was the first time I ever positively IDed the fox and also the first time I tried a contact, so it was still thrilling. I'm running about 3.5 to 4 watts on a vertical Gap antenna. Looking forward to tonite's hunt. I'm really glad I'm in on this game! SOUND THE TRUMPETS...I smell a fox!!

73 de KJ7UN
Laura

Laura Marino Lubner
sputnik@imt.net
QRP-L # 790

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: ka7you@juno.com
Subject: [3183] Mixer responses overwhelming-thanks
Message-ID: <19961029.233510.10935.7.KA7YOU@juno.com>

I received all I asked for, and much more before the day was nearly done. Thanks to everyone who responded. I've posted direct notes to those whose messages arrived in the first batch, regarding disposal.

Also, there is one op who needs retraining, recycling, a better diet or maybe disposal of his or herself. :>) Read on...

snip>

<They're crap. Junk. They're worse than junk -- they're -- uh-- dangerous,
<yeah, that's it -- they're dangerous -- they emit 33rd-Degree Mesons and
<Lucky Charm Quarks. You must immediately ship them to me for proper
<disposal.....

7 3

Rod Johnson KA7YOU NWQRP#120

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: "Hidehiko Komachi" <ja9mat@nsknet.or.jp>

Subject: [3191] My trial Homepage is open.

Message-ID: <199610301251.VAA01508@po.nsknet.or.jp>

Hi,

I've put my homepage today.

This is my first trial and I'll add other items as soon as I can.

I'ts my first trial!

The URL is "<http://www.nsknet.or.jp/~ja9mat/Index.htm>"

*** Thanks! 73/72 & GL! , From: Hidehiko KOMACHI as JA9MAT ***

Member of JA-QRP#036 & G-QRP#9128,E-Mail; ja9mat@nsknet.or.jp

Radio Packet;JA9MAT@JA9IHI.28.JNET9.JPN.AS,"Inet-QRP-L"#761

-----< end of message >-----

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: nskousen@scientechn.com (Niel Skousen)

Subject: [3214] N/T Fox rpt - Tue 10/29

Message-ID: <v02140b04ae9d2c34b2b7@[198.60.91.132]>

Well this time I decided to try with no elmer-in-the-shack support. That was both good and bad.

Bad; well good bye composure and code for the first 10 min!!!! When 3 people came back to the first CQ, . . . it was not a pretty sight ! I hope I did not lose anybody permanently. Floyd waited a while and came back for seconds and I really enjoyed the QSO. Floyd, you should see the difference in what was copied the first and the second times...:-)

Good; I made the hurdle, I recovered from the initial shock, and I enjoyed the evening.

Chucks approach in getting the N/T Foxs on twice a month is really greaat !
THANKS AGAIN Chuck !

One of the best parts of the N/T hunt is the aftermath. Within 20 min's I
had 3 personal notes already, It really impressed my XYL with the people
and the support here !

Log summary:

Call	RST	<RST.Name.State.Nr/Pwr>	ie his report to me...
KI6OY	379	449 Lee CA 5w	
KU7Y	449	459 Ron NV 17	(TNX for using the easy name :-)
NQ7X	449	559 Floyd AZ 343	
KJ7LB	339	529 Paul OR ??	
WB6LMA	339	239? Frank OR ??	

Total 5 ...

RX Reports (I know these don't count, but still interesting)

KF4JSV	---	Jeff	VA	via QRP-L
KB0ROL	---	Brad	CO	"
KI7MN	---	Bob	AZ	"

I will QSL (for both weeks..) in the near future
Thank you all again very much, can't wait for my next turn . .

72
Niel

PS CA-1 TX-0 sri.. :-)

Niel Skousen; S.Eng, SCIENTECH.SPG nskousen@scientech.com
208.525.3742, FAX 529.4721 Idaho Falls ID WA7SSA QRP-L.119
-----DN33wm-----

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Barry Keating <Barry.P.Keating.1@nd.edu>
Subject: [3189] Novice FOX Tonight (Wednesday)
Message-ID: <v03007800ae9cf95b390b@[129.74.87.62]>

*** Tonight - Wednesday - October 30, 1996 - Local Date ***

*** Novice Fox ** ** Novice Fox **

I will be on the air for a second time tonight -Wednesday evening (the local date is October 30, 1996).

WD4MSM -- Novice Fox
Wednesday, October 30th (local date)
9:00 - 11:00 pm local (New York) time
8:00 - 10:00 pm local (Chicago) time
0200 - 0400 UTC
frequency: 7.112 +/- MHz (alternate: 7.121 MHz +/-)

QTH is South Bend, Indiana (90 miles east of Chicago)
QRP-L# 642

Come SLOWLY!! Hope for good conditions!

Barry Keating
WD4MSM

Professor Barry P Keating
phone: 219-631-6370
Jesse H. Jones Professor, Chairman
fax: 219-631-5255
Department of Finance and Business Economics
e-mail:
keating.1@nd.edu
226 McGlinn Hall, College of Business
Notre Dame, Indiana 46556

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: wb0poq@visi.com (Bob Liesenfeld)
Subject: [3254] Old Laffayette skez
Message-ID: <199610310149.TAA16906@mixer.visi.com>

Hi,

I'm looking for a schematic for an old Laffayette HA-600 receiver. Will pay copying etc.
Tnx!

Bob wb0poq@visi.com
Bob L. wb0poq@visi.com

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: bachmann@ari.net
Subject: [3248] Phoenix and QRP
Message-ID: <199610302316.SAA02198@mtolympus.ari.net>

Hi Gang,

I will have a chance to visit Phoenix AZ in the near future. Are there any recommendations on places to visit that relate to QRP, electronics parts, home brew, boatanchors or ham radio? Any suggestions would be appreciated.

Tnx, 73, Rich, N3SLR

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Dan Keen <70731.722@CompuServe.COM>
Subject: [3176] QRP-L digest 528
Message-ID: <961030063141_70731.722_EHM65-1@CompuServe.COM>

> Hello Gang,
>
> Does anyone have a source for 7040 kc XTALS in FT-243 cases for use in the
> "Bare Essentials Transmitter". I would like to build an authentic "period"
> piece.
>

Of course JAN XTALS in florida does (they do have an 800 number). ALLELECTRONICS catalogue (also on the web at something like www.allectronics.com) has vy cheap old fashion ft-243 sockets. In the catalgoue they look like porcelen. "624 kits" catalogue had some ft-243 sized xtals a couple years ago. Maybe 7040 maybe some other popular freq, I can't remember. ALLECLECTRONICS has old tubes, too.

Dan

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: michael.hopkins.1171@corvus.com (Michael Hopkins)
Subject: [3180] QRPp /p. correctness

Message-ID: <96103002003528707@corvus.com>

George wrote:

PA> OK, if QRP is considered to be 5 watts or less... Is QRPP 1
PA> watt or less, or Less Than 1 watt? How about QRPPp ?

PA> QRP = 1 - 5 watts
PA> QRPP = .1 - .999 watts
PA> QRPPp = <.099 watts

When Ade Weiss wrote the classic JOY OF QRP in 1984, and before that when he was publishing The Milliwatt and writing for CQ, he took QRPP to mean < 5 Watts. Being a college professor it is not unlikely that he thought the "p" to refer to "penta" or 5 in Latin. Milliwatting was, of course, < 1 Watt.

Nothing has happened to make me think we need change the nomenclature and, indeed, some factors say we should not. It was not wise to abandon a descriptive word like "kilocycle" for a political correctness like "kilohertz" and, besides, we should also keep the Latin so as to avoid yet another codependent gesture to the illeterati.

Historically, as when I joined QRP-ARCI in '77 or so, the term QRP was thought to mean < 100 Watts. I favored, then and now, the 75 Watt Novice power level measured as Input so as to allow the poorly equipped beginner to easily calculate and to encourage efficiency. Others felt otherwise and the editors ran a poll to change the definition. They did not get the votes so, like all volunteer tyrants, they held another election.

The British laugh at us. They used input power, logically, but changed over just to be polite. Stateside I hear arguments from non-QRPPers that we are breaking the rules for failing to "use enough power to maintain a reliable connection." I return that we are studying propagation, but I have no answer to the next complaint -- that we do not understand Effective Radiated Power. They are right when they say that 5 Watts into a certain array on 7.040 megacycles is more like 45. For that reason and others, I would have us all use 67' wires, however configured, to keep the field level.

So as to a new QRPPp designation, I say keep the rules we have -- they are bad enough.

72,3 de ab51, QRP-ARCI 4400, G-QRP 669

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: James Bell <jim.bell@canada.cdev.com>
Subject: [3192] QUESTION: Tx as Sig. Gen.
Message-ID: <199610301258.HAA138621@nss2.CC.Lehigh.EDU>

Gang,

I have a Yaesu FT890 which I can convert to general coverage on transmit.

Would it be feasible to use it as a signal generator to align I.F. strips? I would presume that I would have to have an attenuator on the output.

Has anyone done this?

What suggestions do you have?

Thanks in advance.

Jim VE3DDY

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "Dan Tayloe-P26412" <Dan_Tayloe-P26412@email.mot.com>
Subject: [3208] Re[2]: NE602 Front End Overload
Message-ID: <M27707592.010.3hce7.1.961030152212Z.CC-MAIL*/OU=SATCG/OU=AZBH/PRMD=MOT/ADMD=MOT/C=US/@MHS>

It is not an image problem. The station was everywhere across the band. However, I had not considered the IF frequency. It is at 6.176 MHz which could very well be smack in the middle of a shortwave BC band. Good call. I will have to check into this.

I know that the MC1350 is a noisy device. I might try placing a pre-amp after the first filter, before the MC1350. However, with 18 db of advertized gain in the first NE602, I would think that it has already set the noise figure for the receiver.

I will have to experiment some more. I used the front end NE602 as my 3.924 MHz VFO and had a difficult time getting it to start. It could also be that due to this, I may have low injection to the mixer, which could also be causing some problems.

Compromises? Trades offs? Like low power consumption vs. strong IMD

performance vs. sensitivity? (Pick any two, hi!)

Well, experimenting is what it is all about....

Dan Tayloe, KK7BD, Phoenix, AZ QRPL # 696

----- Reply Separator -----

Subject: re: NE602 Front End Overload
Author: ori@HEA.COM@INTERNET at #EMAIL
From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Mike Boice <kd0fx@worldnet.att.net>
Subject: [3251] Routing feedline thru attic vent
Message-ID: <1.5.4.32.19961031002616.00672524@postoffice.worldnet.att.net>

A couple weeks ago, I posted a question to the group regarding ways to route feedlines through windows, and, sure enough, I received a plethora of good advice. Being who I am, however, I still haven't gotten around to taking any action on it. One of the reasons for this is the available window is in a room far from where I'd really like my rig to be.

So this afternoon, with Halloween less than a day away, I figured it would be a good time to investigate the attic/crawl space above the room where I want my rig, and see what kinds of spooky, creepy, crawly things I could find up there. I rent this house, and so hadn't been up there in the 5 or so months that I'd lived here. My original intention had been to see if I could route the feedlines through the overhang area, and drop straight down to my rig. Unfortunately, this area is packed with electric wires, since the fuse box is only a few feet away, and the meter is directly opposite it on the exterior wall.

But... above the attic opening is a vent, clear and open to the outer world, save for the screen used to keep leaves & larger vermin from finding their way in. I figure I could route the feedlines through the vent and across the attic, dropping down through a hole in the ceiling to my rig. The hole would be in the back corner of a closet, out of eyesight.

My question (phew! About time I got to it, huh?) is: How will this metal vent affect my RG-8x coax lines and 450 ohm window line? Replacing the vent with a plastic one is pretty much out of the question, as that would be enough carpentry that my landlord would surely see it.

73,

mike KD0FX

Richland WA QRP-L #576 QRP ARCI #9270

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Jorgen Jonsson <jorgenj@uddeholm.se>
Subject: [3199] Schema on a Svepgenerator
Message-ID: <96Oct30.161652gmt+0100.36865@wall.uddeholm.se>

Does anyone hav a scematic on an easy built frequency sweep generator
for 200mhz
pse send me a image on it

mailto:jorgenj@uddeholm.se

73 de SM4WDQ

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: wmcshan@REX.RE.uokhsc.edu (Mike McShan)
Subject: [3212] Scope help
Message-ID: <v01540b00ae9d2fa444dd@[157.142.56.166]>

Hi gang,

This weekend I went to a hamfest that shall remain nameless (a real bust); however, I bought a great vacuum tube tester (for \$30) from a guy selling stuff out of his trunk. So I carried my treasure home and looked around for something with tubes that I could test. I remembered that I had been given an old (c. 1960s), non-functioning Hewlett-Packard oscilloscope several years ago (never could quite bring myself to scrape it for parts). Anyway, I checked all the tubes and found one bad one and one questionable one. Luckily, I had a replacement for the bad one in my junk box. After swapping the tube, I plugged in the scope and fired it up - whoa, it works! Now, I need two things:

- 1) Does anyone know a company or individual that might have a copy of the operating manual for this scope (of course, I didn't bring the model number with me to work..)?
- 2) Can someone recommend a good book on using scopes, particularly for radio communications and workbench testing applications? (Molecular biologists use a fair number of electronic gadgets these days, but not scopes. Therefore, I'm pretty ignorant of its potential uses.)

Thanks for any help.

72/73, Mike N5JKY

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: ALK0FRP@aol.com
Subject: [3247] SS CHALLENGE
Message-ID: <961030181528_1348531349@emout03.mail.aol.com>

OK GANG

I NEED A PARTNER WITHIN 150MILES OF DENVER TO GO UP AGAINST CHUCK K5FO AND
JACK W5WFT.

MY GOAL IS 700 Q'S AND A CLEAN SWEEP SO I NEED A PARTNER WITH TRUE DESIRE TO
GO FOR IT ALL. MUST HAVE A COMPETITIVE ANTENNA SYSTEM. MY ANTENNAS ARE
MONOBANDERS ON 20/40 M TRIBANDER FOR 15 AND WEST ON 20M (WHILE MONO IS EAST)
2 EL ON 80M (PHASED LOOPS). SO COME ON LETS GO FOR IT

ANY TAKERS ????

AL K0FRP

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: cooper@gmpvt.com (Tom Cooper)
Subject: [3237] SS QRP
Message-ID: <199610302030.PAA07561@web.gmpvt.com>

Hi Gang!

I looked up the QST report on the 1995 SS, and there were
about 150 QRP logs and 240 QRO (> 150W) logs. Wouldn't it be great if
more QRP logs than QRO logs received this year? You can make this
happen! Just get in there for a couple of hours and send in your log.

Let's make this the "QRP SS Year".

73,

Tom WA1GUV

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: KFGlynn@aol.com
Subject: [3211] SS Section for SS?

Message-ID: <961030110604_553267804@emout17.mail.aol.com>

Hi gang,

My QTH is Brooklyn, NYC. Not sure if my section is same used for Field Day - NLI. Does anyone know? I've asked the ARRL twice for this, and maybe I'm asking the question incorrectly, but still not sure.

Tnx for info.

72 Kevin KB2TEO

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Joe Gervais <vole@primenet.com>
Subject: [3233] Subject: Re: N/T Fox rpt - Tue 10/29
Message-ID: <199610301958.MAA15831@primenet.com>

Ron (KU7Y) wrote:

>
> Even if "WE" don't get any more points, we can at least give
> points the the [Novice] fox!
>
> When you hear them calling with no takers, jump in! Lets see
> a N/T fox come up with 30 or 40 QSOs.

Hear Hear! Or is it Here Here? Aw heck, what he said. :-)

Got home late and tried to find Niel, but no luck. Not even any hunters. So figured I'd dive down to 7040 and see who was lurking. Lo and behold, it's the elusive KU7Y calling CQ. In my four short years of Hamming/QRP, Ron's the *only* NV station I've ever heard (yeah, always missed the NV QSO Parties). Every Fox hunt he's teased me with a strong S7-S9 sig, but have never been able to bag him for QRP WAS.

Well Ron came back to me (twice actually, I'd bumped my rig while grabbing a bite of dinner and QSY'd to who-knows-where :-)) and gave me my first NV QSO. Thanks! QSL and SASE are on the way! Then he teases me yet again by telling me he just worked the Novice fox. Argh! So we sign off and I head up to 7110-7115 again. Nada. Zip. A few signals, but no Fox.

Turns out fellow ScQRPion Kent (AB7OA) had been monitoring our QSO and also headed up to check for the Fox. Nada. Zip. Stealthy one indeed! But we'll be out there next time. As

soon as Floyd breaks through, the rest of us Zonies will be right behind him. :-)

See ya next time Niel!

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: JCoote@aol.com
Subject: [3205] TDR Question
Message-ID: <961030101300_1582715959@emout19.mail.aol.com>

Though not directly related to QRP in the purest sense*, I have obtained a Tektronics 1502B Time Domain Reflectometer.

I wish to use it for checking coax and other feedlines or cables for impedance bumps, etc.

My question is:

What precautions are needed if checking a possibly "live" line such as a telephone or data twisted pair?... The Tek 1502B literature states the front of the unit is good to 400 volts, but a precaution on front input connector states "no DC voltages" or similar. Must I use a BNC "DC block" on the input of the TDR?

Please save bandwidth and respond by email., not thread.

Thanks,

Jay
WB6AAM

*Disclaimer: To be used only for checking QRP coaxial and other feedlines, for amateur frequencies only, or for wireline remote control of amateur equipment only ; -)

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "rwilcox" <rwilcox@newton.cacky.com>
Subject: [3231] Ten Tec Century 21
Message-ID: <9610301940.AA08342@newton.cacky.com>

All

Thanks to all who responded to my question about the C21. I now have parts comming from Ten Tec. I did bypass the PA module and am getting about 1/2 watt out measured with my MFJ tuner, probably not to acurate.

Thanks and 73's Gary
Gary Wilcox
Commonwealth Aluminum

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: cookes@pc.jaring.my (Siong Teck Cheun @ Joseph)
Subject: [3188] test don't read
Message-ID: <199610301213.UAA10588@jaring.my>

test

```
*****
*      SIONG 9M8ST/V85ST          /-/-/ ~ /|\          *
*      G-QRP 7986                /^\ |/\ |/_|_ \         *
* e-mail cookes@pc.jaring.my      |      //^^\ \         *
* snail mail address :           _/_/^\_/_|%@|_/_ \       *
* 171D Cookes Drive               *                          *
* 93150 Kuching Sarawak           *                          *
* MALAYSIA                        *                          *
*                                *                          *
*      # For more information about SARAWAK check in #      *
*                                *                          *
*      http://www.sarawak.gov.my/stb                          *
*                                *                          *
*****
```

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "Jeffrey M. Poulin" <jpoulin@erols.com>
Subject: [3177] Tnx: 80M on 40M dipole
Message-ID: <199610300723.CAA17256@smtp1.erols.com>

Dear Group:

Thanks to everyone who replied to my question about running 80 meters on a

40 meter dipole using a tuner. I should have the Scout 80 meter module by Friday and I'll try the tuner method. I *think* there's a way I can get an 80 meter dipole or something else appropriate on my property, but that must be for another day.

Once again, this group has come through. Not only with personal experiences but giving the "why" for their answers.

Thanks again.

Jeff/KF4JSV QRP-L #743

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: wb2vuo@juno.com (William K Hibbert)
Subject: [3172] W6RCA Triangular Loop on Other Bands
Message-ID: <19961029.181701.4727.0.wb2vuo@juno.com>

After reading Cecil, W6RCA's post on the triangular loop for 40 Meters, I decided to play with the design on other bands.

First off, the design, fed at a bottom corner, should look more vertical than horizontal, so I scaled one for the 2 Meter band to check out this premise. The vertical side came out to 11.75", the flat top to 34.75" and the diagonal to 36.5 ", total length of 83". Resonance showed up at about 144.5 MHz, within reason allowing for the relatively 'large' conductor size (#12 solid wire). Now for the checks.

I tie-wrapped the flat top to a 3/8" fiberglass electric fence post, which was forced into a hole in a 60" length of 1" CPVC pipe. The feedpoint was attached to a small rectangle of perfboard, held off the PVC with a 6" length of the 3/8" fiberglass. First off, I rotated the CPVC mast for a pattern check, utilizing the local repeater (K2SA/R), and found a clean bi-directional pattern, but with asymmetrical nulls in the plane of the loop. I then put the mast horizontal, with the flat top now vertical, and swung the mast through 360-degrees. I saw no real change in the pattern, but the nulls were more symmetrical. The signals were, for all practical purposes, the same.

It seems, from this rough test, that the actual polarization is oblique, between vertical and horizontal. This may be an anomaly caused by coupling to objects in the near field, and I really don't have the means of eliminating this possibility. However, regardless of the "true" polarization, the signals were equal to my Copper-Tube J-Pole with both at an equal height (a back porch roof, up 15 feet...)

I will next try this design on 6 and 10 Meter FM. If you want to try out a resonant, single-band version, here's the lengths, scaled from the original design...

FREQUENCY	VERTICAL	FLAT TOP	DIAGONAL
1.85 MHz	77 ft	226 ft	238 ft
3.70 MHz	38 ft	113 ft	119 ft
7.10 MHz	20 ft	59 ft	62 ft
10.10 MHz	14 ft	41.5 ft	43.5 ft
14.10 MHz	10 ft	29.7 ft	31.2 ft
18.10 MHz	7.8 ft	23.1 ft	24.3 ft
21.20 MHz	6.7 ft	19.8 ft	20.8 ft
24.90 MHz	5.7 ft	16.8 ft	17.7 ft
28.40 MHz	5 ft	14.8 ft	15.5 ft
29.40 MHz	4.8 ft	14.2 ft	14.9 ft
52.50 MHz	32.4 in	95.5 in	100.5 in
146.0 MHz	11.7 in	34.5 in	36 in

I used a couple of snap-on ferrites from the local computer shop for the "Sorta-balun" on the outside of the RG-8X. I don't know if it did anything, but they were there, so I used them...

It would be nice if someone could model this loop and see what the polarization actually "is"...

72/73, Keith, WB2VUO, QRP-L #582

Trustee, KB2YTW/B 10 Mtr Milliwatting Beacon (250 mW @ 28.2870 MHz)

"In the Depths of the Great Bergen Swamp...FN13ac"

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: KFGlynn@aol.com

Subject: [3222] What happens when Cycle 23 kicks in?

Message-ID: <961030133249_1780272344@emout05.mail.aol.com>

Hi gang,

Everytime I mention QRP CW with a friend from the local club tells me that I'll be talking to myself when the new solar cycle kicks in. How true is this? Is QRP not going to cut it with QRM and associated noise, even on 10 or 15M?

He ran QRP almost 20 years ago and now he tells me he's 100 watts min.

Just curious to know experience of group.

Tnx for info.

72 Kevin KB2TE0

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "Laura" <sputnik@imt.net>
Subject: [3218] What's Chinese Funeral Music?
Message-ID: <199610301630.JAA17500@cu.comp-unltd.com>

Is it a slang expression or something real? Newbie QRPer asking stupid questions.

73 de KJ7UN
Laura

Laura Marino Lubner
sputnik@imt.net
QRP-L # 790

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "Floyd Soo, KF8AT" <hires@rust.net>
Subject: [3234] [Re: What happens when Cycle 23 kicks in?]
Message-ID: <3277DD9E.17CA@rust.net>

Seeing how 5 watts and a coat hanger can get out, the guy that had such a terrible time with QRP and the last sunspot cycle peak must have used a pant hanger, instead of a shirt hanger!

Seriously, you will love what happens when Cycle 23 kicks in, QRP or QRO!

72,
Floyd, KF8AT
QRP-L #392
hires@rust.net

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: George Gingell <k3tks@u1.abs.net>
Subject: [3178] Re: 120VDC on Soldering Iron
Message-ID: <Pine.BSI.3.93.961030022520.2652A-100000@u1.abs.net>

Gee, What a great story. I never realized you could have so much fun :^)

with one. I am also sitting here thinking how long the "American Beauty" would run off of a stack of Gel Cells? "I know you remember them." That reminds me, I recall, A long time ago, of an incident where a new summer hire was told (Without any Instructions), to go over and "Solder" all the Cross-Connect Jumpers on the basement underground frame in one of our larger Downtown office buildings. Off he went with his # 5 roll of Solder and His Brand New "American Beauty IRON". Need I say more, after an hour or so he returned to the shop for "More Solder". I think he took another three or four rolls. Yep, about 25 Pounds of solder. By Noon we had several thousand S/C out reports from that area. He had "Litterly Soldered All the Terminals together. It took the repair crew all evening to Unsolder the frame. :^) The lesson learned, Be careful what you say, you may get exactly what you asked! :^)

QRP DX TU (C) 1986 G.Danny Gingell, K3TKS@abs.net

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: n1list@netcom.com (Michael L. Ardai)
Subject: [3207] RE: 120VDC on Soldering Iron
Message-ID: <199610301527.HAA20306@netcom5.netcom.com>

I know this should be obvious, but figure it is worth mentioning.

Before trying out a soldering iron on DC, make sure it doesn't have a transformer in it. Both my Weller soldering station and the infamous American Beauty guns are transformer-based and will heat up somewhere iother than at the tip on DC...

73,
/mike
n1list@Netcom.com

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "Ralph L. Irons" <rli8m@weyl.math.virginia.edu>
Subject: [3252] Re: 40-9ers gone
Message-ID: <Pine.A32.3.93.961030200356.71911A-100000@weyl.math.Virginia.EDU>

My hat is off to Jim Cates, Doug Hendricks and Wayne Burdick on behalf of all of us who have had the great fun of building and tinkering with the 40-9er!

Ralph AA6UL/4

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: vodall@juno.com
Subject: [3243] Re: 49'er Kits sold out
Message-ID: <19961030.125822.8247.2.vodall@juno.com>

On Wed, 30 Oct 1996 09:03:53 PST wager@juno.com (James W. Cates) writes:
>There will be no more. Next NorCal club project will be the SST
>transceiver kit, which Wayne, N6KR, is designing at this time. Thanks
>to all who made the 49'er a huge success for the club. jim, WA6GER.

Wahhh... I visited the WEB page yesterday and had myself talked into
ordering one today...

Does this include the bare circuit boards and crystals?

Are there other inexpensive kits available?

73,
Bill - WA7NWP

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: rob3ert@juno.com (Robert G. Parks)
Subject: [3253] Re: 49'er Kits sold out
Message-ID: <19961030.144954.3742.0.rob3ert@juno.com>

On Wed, 30 Oct 1996 12:44:20 MST vodall@juno.com writes:

>
>On Wed, 30 Oct 1996 09:03:53 PST wager@juno.com (James W. Cates)
>writes:
>>There will be no more. Next NorCal club project will be the SST
>>transceiver kit, which Wayne, N6KR, is designing at this time.
>Thanks
>>to all who made the 49'er a huge success for the club. jim, WA6GER.
>
>Wahhh... I visited the WEB page yesterday and had myself talked into
>ordering one today...
>
>Does this include the bare circuit boards and crystals?

>
>Are there other inexpensive kits available?
>
>73,
>Bill - WA7NWP
Bill,

Don't know if PC boards will still be available, but it might pay to visit:

<http://www.duke.edu/~djohnson/kltechg.html>

That's the KnightLite site and they have lots of additional info on the 40-9er.

72/73

Bob Parks
K6AEC
QRP-L#630
Norcal#1771

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Toshiyuki Ando <ando@oecj.co.jp>
Subject: [3175] Re: A 10M QRP Transmitter
Message-ID: <3276EC57.4CE9@oecj.co.jp>

PasDave@aol.com wrote:

>
> I am looking for a 10M Transmitter or transceiver kit--QRP of course. Does
> anyone out there know of a good-performing 10M transmitter kit? I'd like to
> know where to get the pc boards or kits. Thanks! 73, Dave KE6PUF

Hi Dave,

Are you looking for a 10M transceiver kit for FM?
A Japanese small kit maker has tiny 10M transceiver kit for FM.

If interested, I will give you contact information.

Regards,
Toshi Ando
JK1APL
QRP-L #798

--

```
=====
Toshiyuki (Toshi) Ando
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GGD03410@niftyserve.or.jp
=====
```

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: vodall@juno.com
Subject: [3245] Re: Computers and Ham Radio
Message-ID: <19961030.120958.2591.9.vodall@juno.com>

On Tue, 29 Oct 1996 10:23:22 -0700 lve1@inel.gov (Larry V East) writes:

>
>However -- I do believe that many folks get completely carried away
>with
>computers. For example, I can't for the life of me figure out why
>someone
>would sit in front of a computer with a picture of a transceiver's
>knobs and
>switches on the screen and use the mouse/keyboard to tune the receiver
>that
>is sitting right next to the computer!

Here's my "carried away" dream...

A QRP rig, something like the 40-9er, that's built in to the computer.

The computer would be a portable in the small RV, van or even a water bottle on the bicycle. (Programmed in FORTH, of course. The QRP programming language..)

The computer would be making the QSO's automagically.

I'd sit back, sipping a can of XX beer, watching the sunset at some fabulous
touron location, using a modified PILOT with an RF link to the main computer to
check the current ?MPS results.

How's that for carried away?

>Back to writing the @\$ software documentation...

Quick. Somebody get that man a XX (Dos Equis).. He needs it.

73,

Bill - WA7NWP

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Steve Bornstein <saborns@freenet.columbus.oh.us>
Subject: [3203] Re: Crystals, 40-9er, & QRPP
Message-ID: <Pine.3.07.9610300947.A18854-9100000@login>

Hello George,

I was one of the folks looking for FT-243 xtals. Yes, I am a member of NORCAL and have ordered xtals from Doug for the project. I like your idea about putting the smaller xtals in 243 cases. Good thinking. Could I talk you into parting with two of the cases?

73/72 Steve K8IDN QRP-L #331 GQRP, NORCAL, MIQRP, AMSAT, ARRL, FISTS ARCI

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: KFGlynn@aol.com
Subject: [3210] Re: Daylight Savings Time
Message-ID: <961030110558_553267788@emout12.mail.aol.com>

Hi gang,

Non QRP, but... Does anyone remember back in 1975 when DST was kept all year round to conserve energy per the President? I remember hearing horror stories of children being run over by cars and school busses because the drivers couldn't see them early in the morning.

Kevin

In a message dated 96-10-28 16:25:21 EST, ddm@datatamers.com (David D. Meacham) writes:

<< hil & the Gang,

I, for one, wish that time changes could be stopped entirely! Not only does one have to reset clocks, but one's body takes several days to adjust to the new time. Since people seem to like DST, how about DST ALL YEAR?

72, Dave, W6EMD

p.s. please excuse the bandwidth...not exactly QRP related.

>>

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [3204] Re: dipole with ladderline

>I see you selectively quoted my statement. You forgot intervening
>lines:

Hi Claton, I didn't forget. Netnews guidelines state that one is supposed to trim a previous posting as much as possible. I trimmed all I agreed with. Notice that I agreed with most all of it.

>My discussion to this point was
>concerning the relationship of the antenna feedpoint impedance (5400
>ohms according to your figures for forty meters) and the transmitter's
>50 ohm output. An SWR of well over 100:1! There is nothing you can put
>between the feedpoint and the transmitter to alter this relationship.

Dang, I hope you don't really believe that because it is absolutely false. The truth is one cannot tell the difference between a 45 ohm antenna and a 4500 ohm antenna fed with 450 ohm ladder-line by observing the 450 ohm SWR at the operating position. SWR for both will be 10:1. Of course, the 50 ohm SWR meter cannot be used to determine the 450 ohm SWR. Assuming the feedline is at least a half-wavelength long, exactly the same impedances will appear all along the feedline in both cases. You cannot tell the difference and your antenna tuner cannot tell the difference. The 50 ohm SWR will be over 100:1 only with feedline lengths that are multiples of a half-wavelength. It will be 1.1:1 for odd multiples of quarter wavelengths.

The 50 ohm SWR is just as likely to be 1.11:1 as it is to be 111:1 with an SWR of 10:1 on 450 ohm ladder-line. Usually, it's in between.

>I believe this statement is only true for a specific length of
>feedline, frequency and antenna tuning device. Just because you choose

>450 ohm line doesn't mean the antenna/transmission line connection has
>a (antenna impedance)/450 ohm feedpoint relationship.

That's true but irrelevant. See above. The transmission line
transforms the impedances all up and down the line following a circle
on the Smith chart. Antennas with impedances of 45 ohms, 4500 ohms,
90+j450, and 90-j450 will *ALL* have the same SWR and possess the
opportunity for presenting identical impedances to the balun, tuner, or
transmitter.

>As I originally said, there is an article that dispels the G5RV myth
>better than I can. The G5RV does work, but not as well as it's legend
>has grown to say.

I agree with you. It's not an excellent antenna. It's also not a bad
antenna, especially for a beginner. Tom, W8JI, is one of the most
knowledgeable antenna guys in the world and he uses a G5RV, among
others.

>Also, one point you entirely missed. I said "Use the lowest loss
>feedline you can and be sure the antenna system is balanced."

Again, I didn't miss it. I followed Netnews guidelines and trimmed the
parts for which no discussion was necessary - meaning I agreed with that
statement.

>The antenna and rules that I decried are, IMHO, the best set of
>guidelines around for the average Ham installation.

But, don't you see, guidelines tend to turn into myths. We have enough
myths already. It's best to understand the principles.

73, Cecil, W6RCA, 00TC (not speaking for my employer)

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [3206] Re: dipoles and ladderline

><Claton Cadmus> You don't need a 4:1 balun, any type of 1:1 current
>balun will work well.

Roy wrote:

>Second, is the use/non-use based on the inefficiency of the balun (or
>put another way, is the inherent loss of a balun a tradeoff for it's
>ability to handle a wide variety of impedances), or because of the
>tuner design used? Or is it WHERE the balun is located(in the tuner or

>with a coax pigtail outside)?

Hi Roy, Baluns are designed for a certain range of impedances and frequencies. If they don't have enough inductance, they lose their function. They are susceptible to common mode currents and high reactances. It is best to present your balun with the impedance and frequency for which it was designed.

Claton has good advice above. Use a 1:1 current balun/choke. It is least susceptible to malfunction. If your antenna tuner can't match what is presented by the 1:1 choke, that is a clue that more work is needed, such as changing the length of the ladder-line. But a balanced tuner is ideal

EZNEC will indicate approximately what impedance is being presented to the balun by the ladder-line. A Smith chart will do the same thing.

73, Cecil, W6RCA, OOTC (not speaking for my employer)

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: jdenison@aisp.net (JOEL DENISON)
Subject: [3201] RE: FOX
Message-ID: <19961030144214785.AAA147@slip16.ts-f-merrill.caps.maine.edu>

WHERE OH where can that little fox be? I've searched all nite with my iambic key and 'nary a fox did I here or sea. Oh wear or wear can that little fox bee.

He was STOLEN BY OTHERS, (secret fox lovers)and kept out of reach.

Maybe we need a sheep hunt!!! :-)

Bye now
God Bless
Joel

WA5CVM	Qrp ARCI #4066	NE-QRP #476	QRP-L #765
Joel Denison			
81 High street	Horiz. Loop up 30ft	Inverted V up 33ft.	
Farmington, Maine 04938			
jdenison@aisp.net	QRP PLUS 5w	SSB & CW	

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Bob Hightower <ki7mn@dancris.com>
Subject: [3197] Re: FOX Findings
Message-ID: <199610301405.HAA03954@dancris.com>

At 06:54 AM 10/30/96 -0500, you wrote:

>On 7112 lots of beautiful Chinese funeral music. 7121 also had
>funeral music but of an unidentifiable ethnic origin. The elusive
>Fox was not found.
>

Maybe he somehow slipped off into the sunset and died :^)

73,

Bob KI7MN NorCal 1221 ARCI 8918 Qrp-1 271 CQC 274 ARRL (Not in any
order of importance!)

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: Ken Lopez <kjlopez@earthlink.net>

Subject: [3264] Re: FOX SWL Report

Message-ID: <32782AA0.530C@earthlink.net>

Bradley L Mugleston wrote:

>

>

> I decided to get in a little radio sending so I replied to a CQ from W6RO in
California.

Then he returned with my number A 265 over and over again. I
> thought I had lost my brain so I asked him to repeat - again my number
> was 265 - How come no one told me that Associated Radio Amateurs of Long
> Beach, Inc. was having some sort of party and giving out numbers.

W6RO gives out QSO numbers because so many people want a card from
them. Why? Because W6RO is located in the radio room of the Queen
Mary! Pretty neat contact, and they have a very nice card.

73, Ken N6TZV

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: Bob Hightower <ki7mn@dancris.com>

Subject: [3262] Re: Fox: Tell the Truth, Chuck!

Message-ID: <199610310403.VAA26867@dancris.com>

At 11:49 PM 9/30/96 -0300, you wrote:

>Gang,

>

> Last night, not only could I not hear the Fox here in Connecticut, I
>couldn't hear even one hunter. So just to check things out I dropped my

>QRP+ down to where the QRO boys play (7.017 if it matters) and got a 5-7-9
>from XE3AJM, Jose, in Campeche Mexico. Tonight, not only could I not hear
>the Novice Fox here in Connecticut, I couldn't hear even one hunter. So
>just to check things out I dropped my QRP+ down to where the QRO boys play
>and got a 5-5-9 from 9A1CAL, Zvonko, in Cakovec Croatia.

>

> Come clean Chuck: Are you lettin' these Fox guys use antennas??

>

>

Yeah, those N/T foxes are really sly! I thought I heard him, but it must have been wishful thinking.

Anyway, since we only get one shot at a N/T fox (for five points), and they are so sly, maybe we ought to get one point if we catch one (after the first five-pointer). That might generate some pile-ups, which would help point the way to them.

Maybe they have been restricted, on the sly, to QRPP, huh?

How 'bout it, Chuck?

73,

Bob, KI7MN QRP-L #271, NorCal #1228, CQC #274, QRP ARCI #8918, not in any order of importance.

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [3186] Re: Frequency Marker Boards
Message-ID: <199610301139.LAA21585@chuck.dallas.sgi.com>

Chuck,

Thanks for the info on the 10.24MHz crystals in the new Digi-Key catalog. Those will work, you'll just get 10KHz markers as the lowest increment instead of the 5KHz.

The diagram was first posted by Glen, VE3DNL, on July 20th, 1995, so it is in the archives for 950720.

I'm copying this to qrp-l.

dit dit

: Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50

: EMPS QS0s=3 STATES(w/c)=3/2 DX=0 : MO TN OK

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: 30-Oct-1996 0743 <randolph@asic.ENET.dec.com>
Subject: [3193] re: HB: Wide range VX0 - called Super VX0(a bit long)
Message-ID: <9610301258.AA23467@us4rmc.pko.dec.com>

> The Super VX0 uses two X-tals of the identical nominal frequency in
> parallel instead of a single X-tal of a conventional VX0. Nothing else
> is special. It can pull considerably more frequencies than the
> conventional one. About 40kHz for a pair of 10.15MHz X-tals, and 90kHz
> for 13MHz, according to my experiences.

Hmm, very interesting...

This makes me wonder what would happen when paralleling 3 or more crystals?
Even more range? Or would it just stop oscillating at some point?

100kHz or more out of a VX0 would make it competitive with LC VFOs, and it's
probably less drifty without a lot of fuss. I'm going to have to experiment
with this a little, maybe a varactor-tuned Super VX0.

=====
Tom Randolph N100Q NE-QRP 419 QRP-L 87 ARRL randolph@asic.enet.dec.com
=====

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: rob3ert@juno.com (Robert G. Parks)
Subject: [3227] Re: HB: Wide range VX0 - called Super VX0(a bit long)
Message-ID: <19961030.095447.3806.0.rob3ert@juno.com>

FB, OM!!!

Keep it coming. Wonderful reporting on a very important subject.

Tnx es 72/73

Bob Parks
K6AEC
QRP-L#630
NorCal #1771

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: FACMSA@facilities.buffalo.edu (Adams, Mark S.)

Subject: [3194] RE: Heard everbody but!

Message-ID: <1996Oct30.080800.1483.26994@facilities.buffalo.edu>

Hi Brad and Gang,

Same deal here in beautiful Clarence, NY. I hear all of the hunters but the fox was mute. So I skipped down to 7.026 and worked a German on Maderia Island signing CT3/DL7???. Did anyone get his full callsign? He was sending at warp speed and would not slow down for me (to a reasonable 25-30WPM). It is time for the NVIS antenna. It will be up before Thursday's VT fox, another short skip hunt in the brambles.

72, Mark

Member of the Buffalo QRP Connection

From: wb8ygg[SMTP:wb8ygg@juno.com]

Sent: Monday, October 28, 1996 7:23 PM

Subject: FOX:Heard everbody but!

X-Juno-Line-Breaks: 0-12

X-Listprocessor-Version: 8.0 -- ListProcessor(tm) by CREN

Couldn't hear Ron at all last night, and was itching to put one of my TiCK-1 prototypes on the air. (God am I glad I can finally talk about this thing, it's been driving me nuts!).

I heard everybody else, but never heard him.

I finally had a nice qso with WB0WQS Kelly, which made it all worth while.

I may have to wait till a fox station is a bit further away before I can hear them.

73 Brad WB8YGG

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: kd1jv@juno.com (Steven Weber)

Subject: [3179] RE: IRF511 PA's (long)

Message-ID: <19961029.192806.7223.1.KD1JV@juno.com>

I'm using three IRF511's in my 40 Mtr Tx. One is used for the driver and the PA uses two in parallel. A 2N2222 is the VFO buffer and a 2N3866 is the pre driver. The VFO buffer is cap coupled into the 2N3866, biased class A and has a bifiller wound output coil on a ferrite core. That drives the first IRF511, which is biased through a 510 ohm gate resistor. A 1 ohm un-bypassed resistor is in the source lead. The output transformer on the driver is a medium sized binocular core (.5 x .5 x .2). The PA also has a 510 ohm gate resistor that is biased by an adjustable LM317 regulator. 1 ohm resistors are also in the source leads of the parallel IRF 511's. The output transformer on the PA is a large binocular core (1.1 x 1.1 x .5).

So that's the basic line up. Can't get much power out of it at all with a 13.8V supply. Going to 28 volts and I can get up to 20 watts out of it. At that power level, the PA's get a bit warm, the bias point drifts and idle current goes through the roof and that's the end of the QSO for a while. Yes, I need a bigger heat sink, even though they are bolted to a 3" x 5" x 1/8" aluminum plate. Or the bias voltage needs to be reduced as the temp goes up. I don't think I would recommend pushing a single IRF 511 above 7-8 watts. Above 7 Mhz, the power drops off radically. Still not bad on 30 Mtrs, but less than 1/3 on 20 and nothing on 15.

It's a real fine line between setting the bias for best power out and having the idle current go up to a couple of amps! When setting the bias voltage, keep an amp meter in line or have a current limited supply. I use a 15 turn trim pot on the PA bias, even so, it don't take much to over shoot and have the drain current go up to amps. Remember, when these FETs turn full on, they are like a short circuit ! Smoked a few 1 ohm 1/2 watt resistors that way.

I set the bias on the PA's to be in the 10 -20 ma range. Power control is done with the bias on the driver FET.

Over coming the gate capacitance seems to be the big problem. I've tried all sorts of ways to drive these things. One would think it wouldn't take much power to drive these FET's, but it does. Lot's of literature recommends putting a zenor diode across the gate. I don't like this. The extra capacitance is a killer. Anyway, the IRF 511 already has a built in zenor and that is where the problem really lies.

Ten-Tec uses IRF 511's in thier driver stages for the Scout. One is a driver and that pushes two in push pull. Output from the push pull stage must be in the 5 watt range. I don't know how they get away with it, especially on 20 and above. The schematic looks simple enough, but haven't tried to duplicate the circuit. What the hey, they already built it for me. Just wish they had put a better VFO into the rig! (damn, I hate that PT0)

de KD1JV, Steve

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: JEVERHART@cayman.litc.lockheed.com
Subject: [3236] RE: JOY!!!
Message-ID: <961030151221.20203a66@cayman.vf.mmc.com>

Charles, you wrote, in part:

>Aren't you going to include 6m? Is 6m a dirty syllable here?
>Come on... somebody tell him about 6m ...
> ...otherwise I will have to.
>
>72s
>Charles Cashion, QRP-L#76, W5ISZ

Just to give some idea of how 6 and 10 meters were during the suspot high in the early 60's, I was really turned on by several things.

1. One of my elmers had me over for a study session and he wanted to show me how good 10 meters was.

He worked a South African (with me watching) from NJ

Signals were 5-9 both ways

He was using a Benton Harbor Lunchbox (a couple of watts AM with a super-regen receiver)

His antenna was an eight foot whip inside his garage!

2. While going to a friend's house to study for our Novice license, I heard both sides of a two-way 6 meter QSO

Between a NJ and CA

On 6 meter AM

On a homebrew super-regen receiver

With a three foot whip antenna

While I walked down the street!

3. Once I had gotten my my General, I borrowed a 6 meter Benton Harbor lunchbox and worked among other things

An FP8 on St. Pierre Is. (off Canada)

From NJ

With under 10 watts of AM

Using 33 feet of wire plugged into the antenna connector!

So anybody who tells you that you will have trouble using QRP during a sunspot max is blowing smoke out his antenna jack.

72/73,

Joe E., N2CX

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: "Phil, AC6LS" <ac6ls@amsat.org>

Subject: [3184] Re: Log-EQF

Message-ID: <327712B1.336B@amsat.org>

I am running version 8.x with no problem on my 486 machines.

I was running version 7.x on my 386 machine, also with no problem.

I know you are looking for xt info. I do know that the latest versions MAY have problems with the older machines. You dont list the ver.

number

you are using. You might try some of the early versions, or find a new source for the "shareware" version you are trying. Also Tom N3EQF, will (I belive) assist you via e-mail (sorry I dont have the address here)

As a testimonial, This is a very good program and at an excellent registration price. very versitile, contesting is no problem. it will even control your hf gear. I have operated several contests and it is a blast. It also supports any of the CD ROM callbooks and will check the call you enter and even input it into the log, so all you have to do is type in the call and your rst's.

I have tried several other programs and I liked this one the best.

However, I have not tried any of the other BIG name programs

(like the ones that advertise in the ham mags)

btw, this does run in dos, windows 3.x and windows 95. and has many other

features not listed here.

usual disclaimers,

73 de PHil

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: Monte Stark <ku7y@sage.dri.edu>

Subject: [3217] Re: N/T Fox rpt - Tue 10/29

Message-ID: <Pine.SUN.3.90.961030084456.13848B-100000@vortex.sage.dri.edu>

Niel and All,

Good job Niel!

I would sure like to hear more stations calling the N/T foxs.

Even if "WE" don't get any more points, we can at least give points the the fox!

When you hear them calling with no takers, jump in! Lets see a N/T fox come up with 30 or 40 QSOs.

cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: 30-Oct-1996 1338 <randolph@asic.ENET.dec.com>
Subject: [3224] re: NE602 Front End Overload
Message-ID: <9610301855.AA17653@us4rnc.pko.dec.com>

> It is not an image problem. The station was everywhere across the
> band. However, I had not considered the IF frequency. It is at 6.176

Yah, I have a old Ten Tec Argo 505 with that problem. A RTTY station of some sort over the whole 40m band. I tuned my general-coverage shortwave RX to the IF freq, 9.0 MHz, and there it was...

I fiddled around with putting LC traps in before the preamp, as the factory filtering is pretty minimal. It helped some, but 40m is still pretty useless. I'll get back to it eventually. The next step might be bypassing the preamp entirely.

Oh yah, pointers to a practical band-stop filter design would be appreciated. This is really glossed over in just about every filter design discussion I've seen. I'm looking for something on the level of the appendix in "Solid State Design", where the double tuned filter equations are given.

=====
Tom Randolph N100Q NE-QRP 419 QRP-L 87 ARRL randolph@asic.enet.dec.com
=====

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Joe Gervais <vole@primenet.com>
Subject: [3250] Re: Phoenix and QRP
Message-ID: <199610310014.RAA28086@primenet.com>

Rich (N3SLR) wrote:

>
> I will have a chance to visit Phoenix AZ in the near future. Are
> there any recommendations on places to visit that relate to QRP, [SNIP]

Well if you time your trip right, I think a monthly meeting of the AZ ScQRPions would be an excellent event to catch. :-)
First Saturday of every month, at Luby's Cafeteria, next to the Ham Radio Outlet (which is conveniently another fine place to drop by...), 10:30am 'til whenever we stop yacking.

Or if that doesn't work, you can drop any of us ScQRPions a note and we can always figure out a time to get together and chat/operate/show off gear, whatever.

Lots of QRPers here in the Phoenix area. Good bunch of folks. Hope to see you soon.

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [3195] Re: QUESTION: Tx as Sig. Gen.
Message-ID: <199610301318.NAA21855@chuck.dallas.sgi.com>

Jim et.al.,

On your question about using something like the FT890 GC receiver for IF alignment.

Something that Danny at Dan's Small Parts used to do for his kits. Build a crystal oscillator/tester. For every crystal that you are going to use in a filter place it in the oscillator and measure it's resonant frequency. Measure as many crystals as possible and pick the ones that "match" or are as close to the same frequency as possible. Helps to have a GC receiver with

a digital dial and a good ear.

Back in the old days I used to be an OO. This was before the current OO position and all we did was send postcards as friendly reminders that someone was doing something illegal or wrong, etc. We used to have to measure an on-the-air transmission from W1AW and measure the frequency as close as possible. Using the old Heath counter I used to get within 1Hz or less of the actual frequency. It's much easier to do today. So with careful measurements you can do very well getting crystals that are very close. Just hope you have a good selection to choose from.

Something else that Dan did and was very very good that he did it. He didn't realize it at the time. But he did the following. He noted the S-meter readings for each crystal and picked the set of crystals that were closest and had the highest S-meter readings. This did two things. Got matched crystals in $f(r)$ and got those crystals that had high 'activity' values and most likely good Q factors.

Food for thought. My \$0.02 worth. Yet another Hint and Kink.
: Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50
: EMPS QSOs=3 STATES(w/c)=3/2 DX=0 : MO TN OK

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: ori@HEA.COM (Ori Mizrahi-Shalom)
Subject: [3239] Re: Re[2]: NE602 Front End Overload
Message-ID: <199610301747.JAA07121@salmon.heava.com>

>
> It is not an image problem. The station was everywhere across the
> band. However, I had not considered the IF frequency. It is at 6.176
> MHz which could very well be smack in the middle of a shortwave BC
> band. Good call. I will have to check into this.

Since it's all across the band it's either on the IF frequency or it's feeding through your front-end. More selectivity in the front-end will help for sure.

> I know that the MC1350 is a noisy device. I might try placing a
> pre-amp after the first filter, before the MC1350. However, with 18
> db of advertised gain in the first NE602, I would think that it has
> already set the noise figure for the receiver.

True about the noise figure but you still have a lot of gain after that, so excessive noise from bad ground or other may still be a factor.

> I will have to experiment some more. I used the front end NE602 as my
> 3.924 MHz VFO and had a difficult time getting it to start. It could
> also be that due to this, I may have low injection to the mixer, which
> could also be causing some problems.

Try a higher bias current. The book recommends a 22K resistor from pin 7 to ground. I found that even 3.9K works fine in my circuit. Look at the waveform and avoid clipping.

> Compromises? Trades offs? Like low power consumption vs. strong IMD
> performance vs. sensitivity? (Pick any two, hi!)
>
> Well, experimenting is what it is all about....

Yes, it's fun. I read your write-up about the IRF-510. I'm interested in that circuit and was collecting lots of data. Seems like the ideal \$3/3W amp!

Have Fun...

ORI

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Roger Traylor <traylor@ECE.ORST.EDU>
Subject: [3219] Re: RF amplifier design
Message-ID: <199610301718.AA298255905@holmes.ece.orst.edu>

Gang,

Regarding Daniel's (9V1ZV) experimentation with an amplifier chain, he recently said.....

> One reason I am doing all this is that I don't want to just copy blocks
> from other people's design. I want to know the why's and how's behind the
> design in case I decide to REALLY brew one from scratch up. I should also
> add that I really appreciate the many inputs I have been getting, which has
> served to clear up a number of points, as well as highlight to me things I
> never knew were important.
>
> In the course of all this, I am also shooting out by-product questions
> that crop up as I go along. The latest "effects of flux" is one such
> example. If anyone objects to my long posts, please just drop me a line.

Although his postings may to some, seem off topic, in my opinion, they represent qrp-l usage at its best. The posts are well marked for the disinterested, and contain the kind of "thinking(questioning) out loud" that can edify and educate us all. I applaud Daniel for asking questions in a public forum that many would be too embarrassed to ask. You have educated more folks than you might think Daniel.

I would like to see more discussions of this type. And yes, I think there is room for it here without creating another forum. Perhaps a summary post for each question/answer pair would be good.

Thanks,

Roger Traylor
WB4TPW

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "Warren E. Lewis" <saswel@unx.sas.com>
Subject: [3226] Re: SS TX Challenge
Message-ID: <199610301916.AA19478@cardamom.unx.sas.com>

>
>
> Gang,
>
> OK, some of you want it and now you're going to get it!!
>
> Jack Bryant, W5TFB, and Chuck Adams, K5F0, will be on during
> the SS contest so we'll take on another or any pair of QRPers
> from any or all states. Pair must be in same state and within
> 150 air miles of each other. Combined score of each pair added
> and the highest total wins.
>
> This is not recommended for the weak of heart.
>
> I made a mistake this morning and looked up the results from
> last years SS. The North Texas Contest Club, not to be confused
> with the North Texas QRP Club, gave me a goal this year. I'm in
> big trouble. Really big trouble.
>
> But I've got some good news. Smallest tower I will be using
> is 85' and the tallest somewhere near 110'. :-) Good news
> for me, bad news for KU7Y. :-) ;-) I'll be around 4W
> for this one. ERP is a little more than that with all beams
> on all bands. I will have witnesses to this one. Film at 11.

>

Ok Guys!!

I suckered Bob, AE4IC into the challenge!! So Chuck watch out for us NC boys. We only have low dipoles and are code challenged compared to you, but, we are gonna give you TX dudes a run for the money.

What other states can muster up the guts to try and shoot down ole Chuck "Big Gun" Adams!! :-)

cheers and 72 - Warren "Little Pistol" Lewis

--

Warren E. Lewis
Technical Support Division
SAS Institute Inc.
Cary, NC

saswel@unx.sas.com
(919) 677-8001 x6542
PP-ASEL
AD4ZE QRP-L#78 DOD#0021

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Gary Schiltz <gss@ahipc.eds.com>
Subject: [3213] Re: Tree Fishing
Message-ID: <32777FA5.7FBB@ahipc.eds.com>

I'm fortunate enough to live next to a small wooded lot, and have a few large spruces in my yard. After years of using a dipole up on the roof with moderate success on the higher bands (40 and up), I decided this summer to put a couple of days of vacation to use and put up a "real antenna." Antenna design is confusing, so I went with the simple rules of thumb I had always heard: put out as much wire as possible, as high as possible, and as clear of conductive material (lines, gutters, tin roofs, etc.) as possible.

So, off to Home Quarters I went and picked up a 500' roll of 14 gauge insulated copper stranded wire for \$20. Next stop was K-Mart for a \$5 Zebco 202 fishing reel, \$1 worth of lead sinkers, and a \$5 wrist slingshot. Combine that with 50' of free RG-11 ethernet cable and a \$2 coax connector brought the total cost with tax to about \$35 (I won't mention the cost of replacing the window when I tried to drill an extra hole for the coax; that's another story :-).

First lesson learned: wait until the leaves fall before trying

to put up wire into trees, especially oaks. There were entirely too many heavy leaves for the sinker to reliably get past, and they tend to snag quite easily.

Second lesson learned: use heavier sinkers (I don't remember what mine were, but they wouldn't always pull the line up, especially when it draped over a lot of leaves).

Third lesson learned: use heavier line than 10 pound test. I broke it several times trying to pull the sinker free of snags when it wouldn't drop. Good thing I bought several sinkers.

After a frustrating day and a half, I finally got about 300' of the line up. It starts at the peak of the 20' roof, slopes upward to near the top of a 40' spruce, wraps around the spruce at 45 degrees and continues sloping upward to near the top of a 60' oak, makes a 90 degree turn and slopes upward to near the top of an 80' oak, and drops about 60' to where it is attached to a 10 pound rock (to allow the trees to bend in the wind without breaking the wire - I will probably replace the wire every few years so I can use the old wire to thread the new wire). So now, I have an antenna that is a longwire, sloper, and vertical all in one. How's that for a well thought out antenna :-). I attach it to the center conductor of the coax (QUESTION: is there anything special I should do with the coax shield? On the rig end, I just hooked it to the PL-259 connector's ground as one would normally do, but I didn't do anything on the antenna end).

What's most exciting is that it is the first antenna I've ever had that gets me on 160 meters. So far, I've made several contacts where I've gotten reports of 20 over S9 into New York (100 watts QRO phone on 160), and have made quite a few 30 and 40 meter CW QRP. My Yaesu 890's built in antenna tuner matches it very well on all bands. It was a lot of fun putting up, and a well worth the effort.

72 es 73 de N8RUY
Gary Schiltz
Bloomfield Hills, MI
QRP-L #561

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>

Subject: [3187] Re: tv twin lead

Message-ID: <Pine.SOL.3.94.961030064155.447B-100000@utkux4.utcc.utk.edu>

On Mon, 28 Oct 1996, Bradley S. Mitchell wrote:

> I want to tell you all this just to make a few of you cringe.
>
> I run the twinlead through a pvc pipe beside all my coax!
> At 100mw no problem, at 100 w no problem. Maybe it's luck,
> but I have done several different antennas this way.

Brad:

What size PVC? I have used the same system to pass through the house side (where it would not ruin the appearance or resale value). Made round slotted spacers with tabs for a press fit to keep the parallel line centered--it appeared as a "tip" in Ham Radio many long years ago. (Nostalgia: sure do miss Jim Fisk.) It is imbalance that fouls parallel transmission line performance, not metal (nearby coax) per se (but do not wrap parallel line tightly in aluminum foil thinking that you assure balance, because that tight coupling will alter the line field significantly). Tight coupling to coax braids may cause some loss, but it is likely small enough not to be hearable (in the half to 2 dB range, or less than half an S-unit on most meters) without a lab-grade A-B test; and there may be no easy alternative.

My preference is 1.5 to 2" nominal (real is larger) PVC, but circumstance will dictate.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996

From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>

Subject: [3200] Re: W6RCA Triangular Loop Models (very long--sorry)

Message-ID: <Pine.SOL.3.94.961030090318.24246A-100000@utkux4.utcc.utk.edu>

Modeling the W6RCA Triangle for 40

Although I did some initial modeling on the W6RCA triangle for 40 and reported on it to this list, KB2YTW's 2-meter experiments renewed my interest in the antenna. So I went back to the modeling machine--and tried to make some comparison's that will permit builders to evaluate the design as it pertains to their own situations.

One of the difficulties that crops up when folks ask for models is that very often, the materials are not completely specified. Hence, I am not certain whether W6RCA used bare or insulated wire for his design, what his ground clutter situation is, etc. Therefore, the models may not yield exactly his dimensions.

All models used #12 bare copper wire above medium ground conditions. NEC-2 is limited to modeling over presumed clear flat ground. One can create wire models of structures, but one would go through that process only for special purpose analyses of specific, unique sites.

The antenna I modeled is the W6RCA triangle, a right triangle with a vertical leg, a top horizontal leg and a sloping hypotenuse, fed at the bottom. For comparison, I modeled a half square, which amounts to a horizontal half wavelength wire (a phasing line) with two vertical quarter wavelength wires dangling, one from each end, fed at an upper corner.

I chose the half square for comparison because it is the best of a class of antennas that includes the equilateral and right angle delta loops, all of which show considerable vertical polarization without use of radials, counterpoises, etc., being closed loops or near relatives. (How the half square fits in here is a matter for a theoretical discussion of some length, but it does fit.)

Both antennas were modeled with a minimum height of 30' with the topmost point a matter of the final modeled dimension. Both antennas were also modeled for 40 meters (7.1 MHz) and for a good coax match. This last strategy does not yield the absolute max possible performance, but the difference is not operationally significant, especially in light of the losses that might be experienced using a special matching method.

Using W6RCA's dimensions, I found a low R (25 ohms) with considerable X. So I adjusted the dimensions for a good resonant match on the model. The vertical went to 30 feet long and the flat top went to 55 feet. In this antenna, increasing the vertical dimension increases feedpoint Z, while shortening it does the opposite. Feedpoint Z of the final model was 43 ohms resistive.

The half square dimensions are also optimized for coax match, with a horizontal wire 69.9' long and end verticals of 34' for a feedpoint impedance of 47 ohms resistive.

With a 30' minimum height for this comparison, the triangle topped out at 60', the half square at 64'.

Both antennas radiate essentially broadside to their horizontal wires. The triangle's maximum gain is 2.4 dBi, which is better by a half dB than the right angle delta, which is a bit better than the equilateral delta. However, because the triangle is not a balanced configuration relative to currents or fields, there is considerably more higher angle horizontal radiation than with the deltas. Models demonstrate this by showing the horizontally polarized component of the pattern as a typical dipole figure 8 pattern. The angle of maximum radiation is 20 degrees, and the radiation at 10 degrees is about 3 dB down from that figure. Interestingly, the vertically polarized portion of the pattern is almost identical to that of the deltas. The front-to-side ratio of the oval azimuth pattern is about 5 dB.

Compared to horizontal dipoles and loops, the triangle has a much lower angle of maximum radiation, but it also has enough higher angle radiation for shorter path QSOs.

The half square's maximum gain is about 2.6 dBi. However, its horizontally polarized radiation takes the form of a cloverleaf of lobes so that in the directions of maximum radiation, the antenna shows strongly vertically polarized radiation. High angle radiation is considerably less than with the triangle, and the angle of maximum radiation is 15 degrees, with about 2 dB less at 10 degrees above the horizon.

Note that the take-off angle comparison is only possible by setting certain parameters equal, such as minimum height. These angles will get lower as either antenna is elevated and higher if the antennas are lowered.

The half-square is likely to have less QRM and QRN from shorter high angle paths and hence slightly quieter long paths. However, it may also miss some shorter skip QSOs.

Note that I neither recommend nor disrecommend either antenna. Both are comparable, and the decision to build either may depend on factors well outside of the modeling exercise, such as terrain, available supports, etc.

Keith's 2-meter experiments are part of what whetted my appetite to return to the triangle. My 2-meter 146 MHz bare #12 copper wire in free air with no PVC, etc. around model ended with dimension of 14" vertically and 36.5" horizontally, and that netted a feedpoint Z of 26 ohms. The pattern is dominated by vertical polarization, with horizontal polarization about 10 dB down. (Remember that a 2 meter antenna over 2 wavelengths up (13' or so) will begin acting like an antenna in free space with respect to stability of the feedpoint impedance and pattern components.) Gain is similar to models I have

made of deltas in the same position. The pattern is a large oval, with the sides down about 7 dB.

Perhaps a superior antenna for vertical polarization in a bidirectional mode is the half-square with the ends pointed up or down as one prefers. Pointing them up makes that antenna easier to feed, since the coax is not directly in the antenna field as a competing element. About 40" horizontally and about 21-22" vertically, pruned to resonance, will yield something so close to 50 ohms that the SWR will be almost imperceptible at 146 MHz. The 2:1 SWR bandwidth will be the 2-meter band.

The pattern of this antenna is a pure figure 8, with side nulls at least 3-4 S-units down (models show them at 30+ dB, but I cannot build that precisely). If you have adjacent channel interference, this antenna will null it out and even make strong repeaters noisy in the null. It may also be useful for VHF fox hunting. Its gain is about a dB higher than the deltas and triangles, but that is less important than the side nulls.

The reason I have this data on hand is that I just sent an article off to VHF magazine (CQ's new mag) on the half-square for 2-meters, and my working model is hanging in my shop. It uses a thin wall PVC support frame, but in such a way as to interfere least with the antenna wire, all of which is in the clear except where it passes through holes in the ends of the PVC. The antenna is pure house wire and scrap from other antenna projects.

Sorry to be so long, but a number of folks have 2-meter interests--and modeling comparisons requires that one set up all the relevant parameters so that the comparisons are meaningful. It is easy to say that "I got good results," but always one has to ask "Compared to what?" whether that is a standard or another antenna. Only if one specifies all the relevant details of a comparison can others evaluate the evaluation. Take nothing on faith with antennas--always get more details until you are sure you understand why things work the way they do. Then you can better predict your own success in putting up the next antenna.

-73-

LB, W4RNL

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QRPARCI 2572 G-QRP 7203 CQC 125 NEQRP 347 NORCAL 1111 MIQRP 1432
NWQRP 401 ARRL Life: Educational Advisor QCWA 13211 10-10 41159
CW Ops QRP Club (VK) 476 FISTS 2600

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Kevin Muenzler <muenzlerk@uthscsa.edu>
Subject: [3225] RE: What happens when Cycle 23 kicks in?
Message-ID: <01BBC663.76E1EBC0@muenzlerk.uthscsa.edu>

On Wednesday, October 30, 1996 12:32 PM, KFGlynn@aol.com wrote:

>Hi gang,
>
>Everytime I mention QRP CW with a friend from the local club tells me that
>I'll be talking to myself when the new solar cycle kicks in. How true is
>this? Is QRP not going to cut it with QRM and associated noise, even on 10
>or 15M?
>
>He ran QRP almost 20 years ago and now he tells me he's 100 watts min.
>
>Just curious to know experience of group.
>
>Tnx for info.
>
>72 Kevin KB2TEO
>
>

Wrong, Wrong, Wrong....

I ran QRP 20 years ago and I had a ball! I almost got bicentennial WAS-QRP but missed it by about a week. During the last cycle I was working Europe, Africa and Asia regularly using QRP on 10 and 15 meters. 10 meters was the best, low noise, high signal strengths. Don't let your friend discourage you, QRP during high sunspot cycles is fun! Now 40 and 80 meters will be very difficult but 10 and 15 will be fun!

Kevin, WB5RUE

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "Paul R. Valko" <prvalko@Oakland.edu>
Subject: [3228] Re: What happens when Cycle 23 kicks in?
Message-ID: <Pine.OSF.3.95.961030142534.4394B-1000000@saturn.acs.oakland.edu>

On Wed, 30 Oct 1996 KFGlynn@aol.com wrote:

> Everytime I mention QRP CW with a friend from the local club tells me that
> I'll be talking to myself when the new solar cycle kicks in. How true is
> this?

Absolutely FALSE.

>Is QRP not going to cut it with QRM and associated noise, even on 10
> or 15M?

What an ass that guy is. I doubt he EVER ran QRP to make such an idiotic statement. Heck, any CBer knows they start talking all over the hemisphere during a sunspot peak with just a 5 watt CB!

As the sunspot counts move HIGHER, the MUF (maximum usable frequency) also increases. Right now, we rarely here anything on frequencies even as low as 14 MHz, during a sunspot peak, even 10 meters will be open around the world almost 24 hours a day.

You have a lot to be looking forward to, QRP or QRO. I've been through 2 sunspot peaks and they are a GAS!

73 =paul= wb8zjl

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>
Subject: [3229] RE: What happens when Cycle 23 kicks in?
Message-ID: <55716.owen@apollo.eeel.nist.gov>

In message Wed, 30 Oct 1996 13:32:49 -0500, KFGlynn@aol.com writes:

> Hi gang,
>
> Is QRP not going to cut it with QRM and associated noise, even on
> 10 or 15M?
>

Kevin your friend is blowing smoke. It won't be harder to work QRP it should be easier. Just as signal strength of the QRO signal will go up the QRP will go up the same amount. 10-20 db is the same for QRP as QRO. There may however be more QRO stations on at a given time and frequency so you may have to look for a less used frequency but you have to do that now. After

going through 4 + cycles, I know you WILL love 23. Try to get on 10 & 15 however for the best and easiest DX. In fact try the 10 meter ARRL contest this Dec 14th and 15th. You should be able to do a WAS over the weekend--or at least close. I've only missed it once in the last 5 years, by 1 state last year. 72 Jim K4CGY qrp-1 #72

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Joe Gervais <vole@primenet.com>
Subject: [3230] Re: What happens when Cycle 23 kicks in?
Message-ID: <199610301929.MAA23001@primenet.com>

Howdy All,

Kevin (KB2TE0) wrote:

>

> Everytime I mention QRP CW with a friend from the local club tells me that
> I'll be talking to myself when the new solar cycle kicks in. How true is
> this? Is QRP not going to cut it with QRM and associated noise, even on 10

...

> He ran QRP almost 20 years ago and now he tells me he's 100 watts min.

Not to show any disrespect to your friend, but it sounds like a total load of bull. Haven't been through a cycle peak yet, but everyone I talk to (QRP and QRO) tells me that you can darn near make QSO on your dummy load when the cycle's hot (unless there's a solar storm or something...).

Just listen in on the Fox hunts. If a few hundred QRPers can work through some of the epic QRN and QRM on 40m, I don't see how it's going to slow us down on the higher bands.

Perhaps 20 years ago your friend was using a marginal rig with a poor filter and not that great an ear? Likewise for the folks on the other end of the failed QSOs? Skill skill skill. After a few more years of Fox hunts, we're going to have some awesome hamming skills folks. Again, not to insult your friend. He (she?) just happens to contradict everything I've heard from OT's.

C'mon sunspots!

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: rhight@primenet.com (Roger Hightower)
Subject: [3235] Re: What happens when Cycle 23 kicks in?
Message-ID: <199610302008.NAA23022@primenet.com>

At 01:32 PM 10/30/96 -0500, KFGlynn@aol.com wrote:

>Hi gang,

>

>Everytime I mention QRP CW with a friend from the local club tells me that
>I'll be talking to myself when the new solar cycle kicks in. How true is
>this? Is QRP not going to cut it with QRM and associated noise, even on 10
>or 15M?

>

>He ran QRP almost 20 years ago and now he tells me he's 100 watts min.

>

>Just curious to know experience of group.

>

>Tnx for info.

>

>72 Kevin KB2TE0

>

>

All the "fair weather" hams will dust off their mikes and you'll see 10 and
15M begin to get crowded; 20M even more so. All on SSB. Long as you work
CW, you'll just think things got a whole lot better.

72/73 de Roger AA7QY

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Kevin Muenzler <muenzlerk@uthscsa.edu>
Subject: [3240] RE: What happens when Cycle 23 kicks in?
Message-ID: <01BBC670.8EAD9D00@muenzlerk.uthscsa.edu>

On Wednesday, October 30, 1996 7:08 AM, Roger Hightower[SMTP:rhight@primenet.com]
wrote:

>All the "fair weather" hams will dust off their mikes and you'll see 10 and
>15M begin to get crowded; 20M even more so. All on SSB. Long as you work
>CW, you'll just think things got a whole lot better.

>

>72/73 de Roger AA7QY

>

>NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383
>

Yes, and by then DSP technology will be far advanced when compared with today's. This means that more CW signals can be on the band with less QRM.

Kevin, WB5RUE

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [3185] Re: White Mountain Progress Grp 5
Message-ID: <199610301127.LAA21522@chuck.dallas.sgi.com>

Preston et.al.,

Hint: When doing construction and at the point that you know you are going to be applying power to a board attach some standoffs at each of the mounting points. This prevents you from laying the board down on something that conducts on the workbench be it a loose wire, clipped component lead, or alligators.

Been there. Done that.

: Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50
: EMPS QSOs=3 STATES(w/c)=3/2 DX=0 : MO TN OK

From owner-qrp-l@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>
Subject: [3238] RE:you have it bad?
Message-ID: <59592.owen@apollo.eeel.nist.gov>

In message Fri, 25 Oct 15:28:10 1996, klh@cbqaa.cb.lucent.com writes:

> Dear QRP-L Family,
>
> I thought everyone was operating, building, and having fun but me.
> I'm glad to hear that others have toilets to unplug, basements to clean
> and dry up, trees to cut down, gutters to clean etc.

Kaye, you don't know the half of it. It started for me in January, 2 seven foot snows in 7 days, actually drifts, only about 22 inches at a time and this is Maryland. Then in April it hit the fan--saw a drop of water on the backflush valve of the neutralizer, wiped it with a paper towel and was hit

with a stream of water between the eyes. Valve rusted out and only the paint was keeping it from leaking, replaced \$600.00. May--Pump quit, during my shower when I was well soaped up, replaced \$650.00. June- Hotwater tank starts leaking, still leaking made a drip pan. June- notice two tires on my car are showing cord, replaced \$450.00 set of four. July- wife has blowout on her car, I caught hell about this, replace another 4 tires, \$400.00. August- notice oil under my car, Steering rack seal leaking, replace steering rack \$395.00. August--A deer decides to use the front door of the house, didn't make it but the storm door didn't either, replace storm door \$225.00. Sept--mice build nest in and die in heater of wife's car, can smell it 100 ft away, wife wants new car, take day off disassemble heater duct and wash out best I can, still smells a little, at least no cost. Oct--shift lever of wife's car sticks in first (auto) when she accidentally pulls it there because indicator stuck in park, got it out easily but now she REALLY wants a new car--Hey it only has 150,000 on it. Oct-Time for heatpump checkup, find another mouse nest and lot of chewed up wires, haven't gotten bill yet. Lot's of rain this year, cut grass, 1/2 acre, twice as much as usual. I did get a 30 meter antenna up, just didn't get to use it. GOD I'll be glad when this year is over and we still have 2 months. You didn't know you had it so good did you? 72/73 Jim K4CGY qrp-1 #72

From owner-qrp-1@Lehigh.EDU Wed Oct 30 23:20:17 1996
From: Dan Halbert <halbert@BBN.COM>
Subject: [3246] Re: [3073] Loop Antenna in Attic
Message-ID: <199610302252.RAA11652@halite.Diamond>

K3TKS wrote:

>I fell out laughing after reading about your Attic Adventures.
>Those of us with "Perfect Heads" are no longer allowed to do Attic
>Antenna work. (I bleed every time I go up there.) No "Early Warning
>Detectors" :^)

I have taken to wearing my bicycle helmet while working in the attic, something I started doing while spending hours putting down new insulation. But I still bash my back on some low cross-braces. Maybe I need to wear an umpire's vest on my back.

Dan, KB1RT